
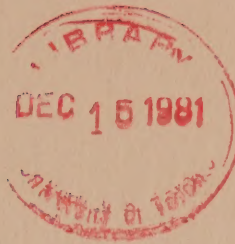


3 1761 11552807 7



Digitized by the Internet Archive
in 2022 with funding from
University of Toronto

<https://archive.org/details/31761115528077>



**OCEANOGRAPHIC OBSERVATIONS
AT OCEAN STATION P
9 February - 29 March 1979
VOLUME 98**

**INSTITUTE OF OCEAN SCIENCES
Sidney, B.C.**



For additional copies or further information please write to:

Department of Fisheries and Oceans

Institute of Ocean Sciences

P.O. Box 6000

Sidney, B.C. CANADA

V8L 4B2

CAI
EP321
-81R12

Pacific Marine Science Report 81-12

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

9 February - 29 March 1979

VOLUME 98

ABSTRACT

Physical, chemical and biological oceanographic observations were made from the weathering at Ocean Station Papa, and between Pigeon Point and Seaside Bays, on a routine six-day basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-depth instruments.

Institute of Ocean Sciences

Sidney, B.C.

1981

TABLE OF CONTENTS

ABSTRACT.....	1
TABLE OF CONTENTS.....	114
INTRODUCTION.....	1
REGION OF OBSERVATION.....	2
OBSERVATIONAL PROCEDURES.....	3
COMPUTATIONS.....	4
REFERENCES.....	5
LIST OF HYDROGRAPHIC AND STD OBSERVATIONS.....	6
WIDE AREA.....	6
SPECIES OF HYDROGRAPHIC OBSERVATIONS.....	13
RESULTS OF STD OBSERVATIONS.....	20
	ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weather ship at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

Figure 1. Chart showing Line P station profiles.....	9
Figure 2. Composite plot of temperature vs \log_{10} depth for Line P stations.....	14
Figure 3. Composite plot of salinity vs \log_{10} depth for Line P stations.....	15
Figure 4. Composite plot of temperature vs \log_{10} (a)/(b) depth at Station P.....	16
Figure 5. Composite plot of salinity vs \log_{10} (a)/(b) depth for Station P.....	17
Figure 6. Composite plot of depth vs \log_{10} (a)/(b) depth for Station P.....	18
Figure 7. Salinity differences between hydro data (a)/(b) and STD.....	40
Figure 8. Temperature differences between hydro (a)/(b) data and STD.....	42

TABLE OF CONTENTS

ABSTRACT.....	i
TABLE OF CONTENTS.....	iii
INTRODUCTION.....	1
PROGRAM OF OBSERVATIONS.....	2
OBSERVATIONAL PROCEDURES.....	3
COMPUTATIONS.....	4
REFERENCES.....	5
LOG OF HYDROGRAPHIC AND STD OBSERVATIONS.....	6
MILE GRID.....	8
RESULTS OF HYDROGRAPHIC OBSERVATIONS.....	13
RESULTS OF STD OBSERVATIONS.....	45
SURFACE SALINITY AND TEMPERATURE OBSERVATIONS.....	291

LIST OF FIGURES

Figure 1. Chart showing Line P station positions.....	9
Figure 2. Composite plot of temperature vs \log_{10} depth for Line P stations.....	14
Figure 3. Composite plot of salinity vs \log_{10} depth for Line P stations.....	15
Figure 4. Composite plot of temperature vs \log_{10} (a)/(b) depth at Station P.....	16
Figure 5. Composite plot of salinity vs \log_{10} (a)/(b) depth for Station P.....	18
Figure 6. Composite plot of oxygen vs \log_{10} (a)/(b) depth for Station P.....	20
Figure 7. Salinity differences between hydro data (a)/(b) and STD.....	46
Figure 8. Temperature differences between hydro (a)/(b) data and STD.....	48

INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude $50^{\circ}00'N$, Longitude $145^{\circ}00'W$) was inaugurated in December 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at $40'$, i.e. $139^{\circ}40'W$, $141^{\circ}40'W$, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes hydrographic, continuously sampled STD and surface salinity and temperature data collected from the CCGS Quadra during the period 9 February - 29 March 1979.

All physical oceanographic data have been stored by the Marine Environmental Data Services Branch (MEDS), Department of Fisheries and Oceans, 240 Sparks Street, 7th Floor West, Ottawa, Ontario, Canada, K1A 0E6. Requests for these data should be directed to MEDS.

Biological and productivity data are published in the Manuscript Report series of the Department of Fisheries and Oceans (DFO), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to DFO.

Marine geochemical data are for the Ocean Chemistry Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B. C., Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS QUADRA, 9 February - 29 March 1979 (P-79-2)
(MEDS Ref. No. 15-79-002)

Oceanographic observations were made by Mr. B. Minkley.

En Route to Station P (Line P)

STD profiles were taken at Line P stations 1 to 12.

At stations 6 and 10 a hydrocast was also taken to 1500 metres for temperature and salinity.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

- 1) Five hydrocasts to 4200 metres for temperature, salinity and oxygen.
One hydrocast to 4100 metres for temperature, salinity and oxygen.
Two hydrocasts to 1500 metres for temperature and POC (Particulate Organic Carbon).
- 2) Thirty-four STD profiles were taken at Station P.
Fifteen STD profiles were taken at MILE GRID positions.
- 3) Daily salinity samples were taken from the seawater loop at 0000 hours GMT.
- 4) BT's were taken every three hours to coincide with meteorological observations and encoded and transmitted according to the IGOSS format. XBT's were taken on days of rough weather.

Marine Geochemistry

Samples for air CO₂, PCO₂, POC, alkalinity, nutrients and tritium obtained during this cruise are for the Ocean Chemistry Division and are not included in this data report.

Biological Oceanography

Samples from 150 metre vertical plankton hauls (Station P) and nutrients (Line P) obtained during this cruise are for the Pacific Biological

Station and are not included in this data report.

En Route from Station P (Line P)

STD profiles were taken at Line P stations 12 to 9 and 5 to 1. At station 4 a hydrocast was also taken to 1200 metres for temperature and salinity.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

Observations for Other Agencies

- 1) Marine mammal observations were made by the ship's officers for Mr. M. Bigg, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, British Columbia, Canada.
- 2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiget, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

OBSERVATIONAL PROCEDURES

Observations for salinity, oxygen and temperature from all hydrographic casts, including the surface, were obtained with Niskin water sample bottles equipped with either Richter and Wiese and/or Yoshino Keiki Co. reversing thermometers. Two protected thermometers were used on all bottles and one unprotected thermometer was used on each bottle at depths of 300 metres or greater. The accuracy of protected reversing thermometers is believed to be $\pm 0.02^{\circ}\text{C}$.

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}\text{C}$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a 'b' in this data record.

Salinity determinations were made aboard ship with either an Autolab Model 601 Mark III inductive salinometer or a Hytech Model 6220 lab salinometer. Accuracy using duplicate determinations is estimated to be $\pm 0.003^{\circ}/\text{oo}$.

Depth determination were made using the "depth difference" method described in the U.S.N. Hydrographic Office Publication No. 607 (1955). Depth

estimates have an approximate accuracy of ± 5 metres for depths less than 1000 metres, and $\pm 0.5\%$ of depth for depths greater than 1000 metres.

The dissolved oxygen analyses were done in shipboard laboratory by a modified Winkler method (Carpenter, 1955).

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Elektronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^\circ\text{C}$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^\circ\text{C}$ for temperature and $\pm 0.1\text{‰}$ for salinity.

STD profiles were taken with a Guildline Model 8700 STD system.

COMPUTATIONS

All hydrographic data were processed with the aid of a UNIVAC 1100 computer. Reversing thermometer temperature corrections, thermometric depth calculations and accepted depth from the "depth difference" method were computed. Extraneous thermometric depths caused by thermometer malfunctions were automatically edited and replaced. A Calcomp 565 Offline Plotter was used to plot temperature-salinity and temperature-oxygen diagrams, as well as plots of temperature, salinity and dissolved oxygen vs \log_{10} depth. These plots were used to check the data for errors.

Missing hydrographic data were obtained using a weighted parabolas interpolation method (Reiniger and Ross, 1968). These data are indicated with an asterisk in this record.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from punch card and magnetic tape records.

Analog traces from the salinity-temperature-pressure instrument have been digitized using a Hewlett-Packard (HP) 9821A calculator and an HP 9864A digitizer, then replotted by an HP 9862A plotter. Digitization was continued until original and computer plotted traces were coincident.

The HP 9821A was then connected to an HP 2116 minicomputer and the digitized data transferred to 9-track tape. Using a UNIVAC 1106 computer the data was listed and obvious spikes removed, then a correction was applied.

Temperature and salinity values were listed at standard pressures and plotted using a Houston Complot DP8S plotter.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^8 ergs/cm ²
OXY	is the concentration of dissolved oxygen expressed in millilitres per litre
SOUND	is the velocity of sound in m/sec

Data were processed for publication by Messrs. C. de Jong, B. Minkley and J. Linguanti.

REFERENCES

- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. and Oceanogr.* 10, 141-143.
- Collins, C.A., R.L. Tripe, D.A. Healey and J. Joergensen, 1969. The time distribution of serial oceanographic data from the Ocean Station P programme. *Fish. Res. Bd. Can. Tech. Rept. No.* 106.
- MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript). *Pacific Marine Science Report* 77-9.
- Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. *Deep Sea Res.* 15, 185-193.
- U.S.N. Hydrographic Office, 1955. *Instruction Manual for oceanographic observations.* Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
001	1	10/02/79	0140	94		<div> <div></div> <div>T,S</div> <div>Line P</div> </div>
002	2	10/02/79	0315	100		
003	3	10/02/79	0520	1200		
004	4	10/02/79	0905	1350		
005	5	10/02/79	1245	1400		
006	6	10/02/79	1850	1400		
007	6	10/02/79	2042		1500	
008	7	11/02/79	0240	1400		
009	8	11/02/79	0830	1400		
010	9	11/02/79	1435	1400		
011	10	11/02/79	2028	1400		
012	10	11/02/79	2147		1500	
013	11	12/02/79	0325	1400		<div> <div></div> <div>T,S,O₂</div> <div>MILE grid</div> </div>
014	12	12/02/79	1304	1400		
015	P	13/02/79	1720	1400		
016	P	14/02/79	1728	1400		
017	P	16/02/79	1729	1400		
018	P	16/02/79	1836		4100	
019	E3	17/02/79	1944	300		
020	E4	17/02/79	2046	300		
021	C1	17/02/79	2150	300		
022	W4	17/02/79	2323	300		
023	W3	18/02/79	0029	300		
024	P	18/02/79	0231	300		
025	P	18/02/79	1719	1400		<div> <div></div> <div>T,S,O₂</div> <div>MILE grid</div> </div>
026	P	19/02/79	2320	1400		
027	P	20/02/79	1740	1400		
028	P	21/02/79	1722	1400		
029	P	22/02/79	1713	1400		
030	P	22/02/79	1816		4200	
031	P	23/02/79	1719	1400		
032	P	24/02/79	1716	1400		
033	P	25/02/79	1710	1400		
034	P	26/02/79	1711	1400		
035	P	28/02/79	1724	1400		
036	P	28/02/79	1814		4200	
037	P	01/03/79	1720	1400		<div> <div></div> <div>P.O.C.,T</div> <div>T,S,O₂</div> <div>MILE grid</div> </div>
038	E3	01/03/79	1924	300		
039	E4	01/03/79	2119	300		
040	C1	01/03/79	2333	300		
041	W4	02/03/79	0137	300		
042	W3	02/03/79	0314	300		
043	P	02/03/79	1715	1400		
044	P	02/03/79	1754		1500	
045	P	03/03/79	1716	1350		
046	P	05/03/79	1716	1350		
047	P	05/03/79	1808		4200	
048	P	06/03/79	1720	1350		
049	P	07/03/79	1712	1200		
050	P	09/03/79	1718	1300		

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS (continued)

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
051	P	11/03/79	0014	1350		
052	P	11/03/79	1714	1350		
053	P	13/03/79	1715	1350		
054	E3	13/03/79	1850	300		} MILE grid
055	E4	13/03/79	2008	300		
056	C1	13/03/79	2133	300		
057	W4	13/03/79	2335	300		
058	W3	13/03/79	0049	300		
059	P	14/03/79	1716	1350		
060	P	14/03/79	1829		4200	T,S,O ₂
061	P	15/03/79	1729	1350		
062	P	16/03/79	1722	1350		
063	P	18/03/79	1719	1350		
064	P	18/03/79	1749		1500	P.O.C., T
065	P	19/03/79	1725	1350		
066	P	20/03/79	1725	1350		
067	P	20/03/79	1814		4200	T,S,O ₂
068	P	21/03/79	1715	1350		
069	P	22/03/79	1715	1350		
070	P	23/03/79	1714	1350		
071	P	24/03/79	1717	1350		
072	12	25/03/79	1819	1350		} Line P
073	11	26/03/79	0352	1350		
074	10	26/03/79	0938	1350		
075	9	26/03/79	1515	1350		
076	5	27/03/79	1411	1350		
077	4	27/03/79	1734	1350		
078	4	27/03/79	1828		1200	
079	3	27/03/79	2203	1350		
080	2	28/03/79	0029	100		
081	1	28/03/79	0234	100		

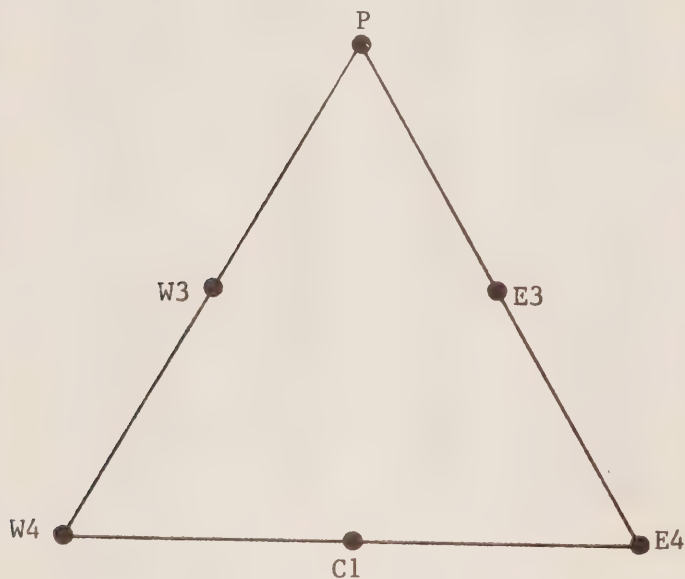
MILE GRID

(MIXED LAYER EXPERIMENT)

During the MILE experiment in the summer of 1977 a 20-mile triangular grid was initiated with STD stations to 300 metres.

During this cruise the grid survey was completed three times.

- 1st - STD consec. #019 - #024
- 2nd - STD consec. #037 - #042
- 3rd - STD consec. #053 - #058



Station ID and positions are as follows:

P = $50^{\circ}00'N$, $145^{\circ}00'W$
 E3 = $49^{\circ}52'N$, $144^{\circ}52'W$
 E4 = $49^{\circ}43'N$, $144^{\circ}44'W$
 C1 = $49^{\circ}42'N$, $145^{\circ}00'W$
 W4 = $49^{\circ}43'N$, $145^{\circ}15'W$
 W3 = $49^{\circ}52'N$, $145^{\circ}07'W$

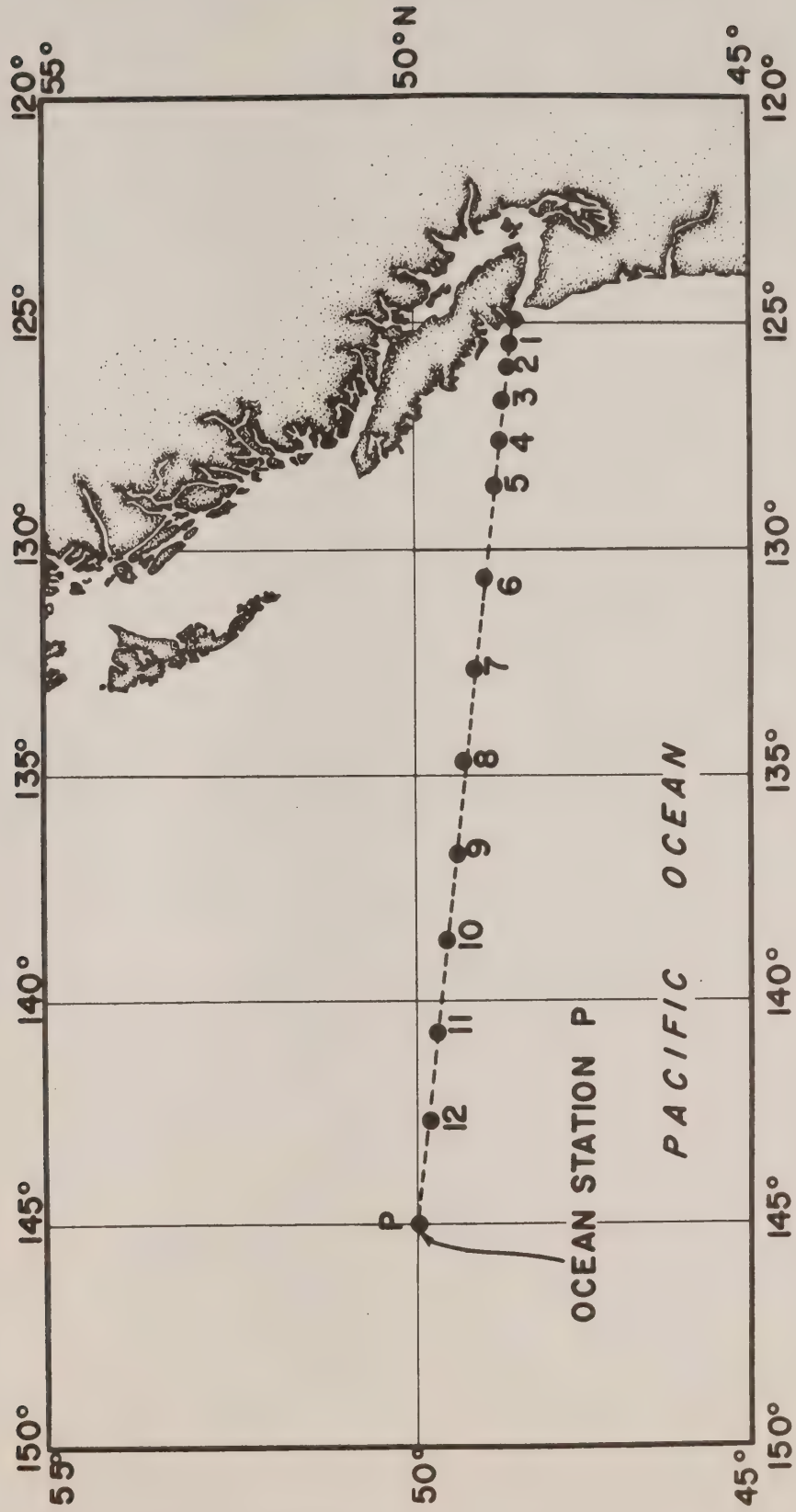


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-79-2

(MEDS Reference No. 15-79-002)

Results of Hydrographic Observations

(P-79-2)

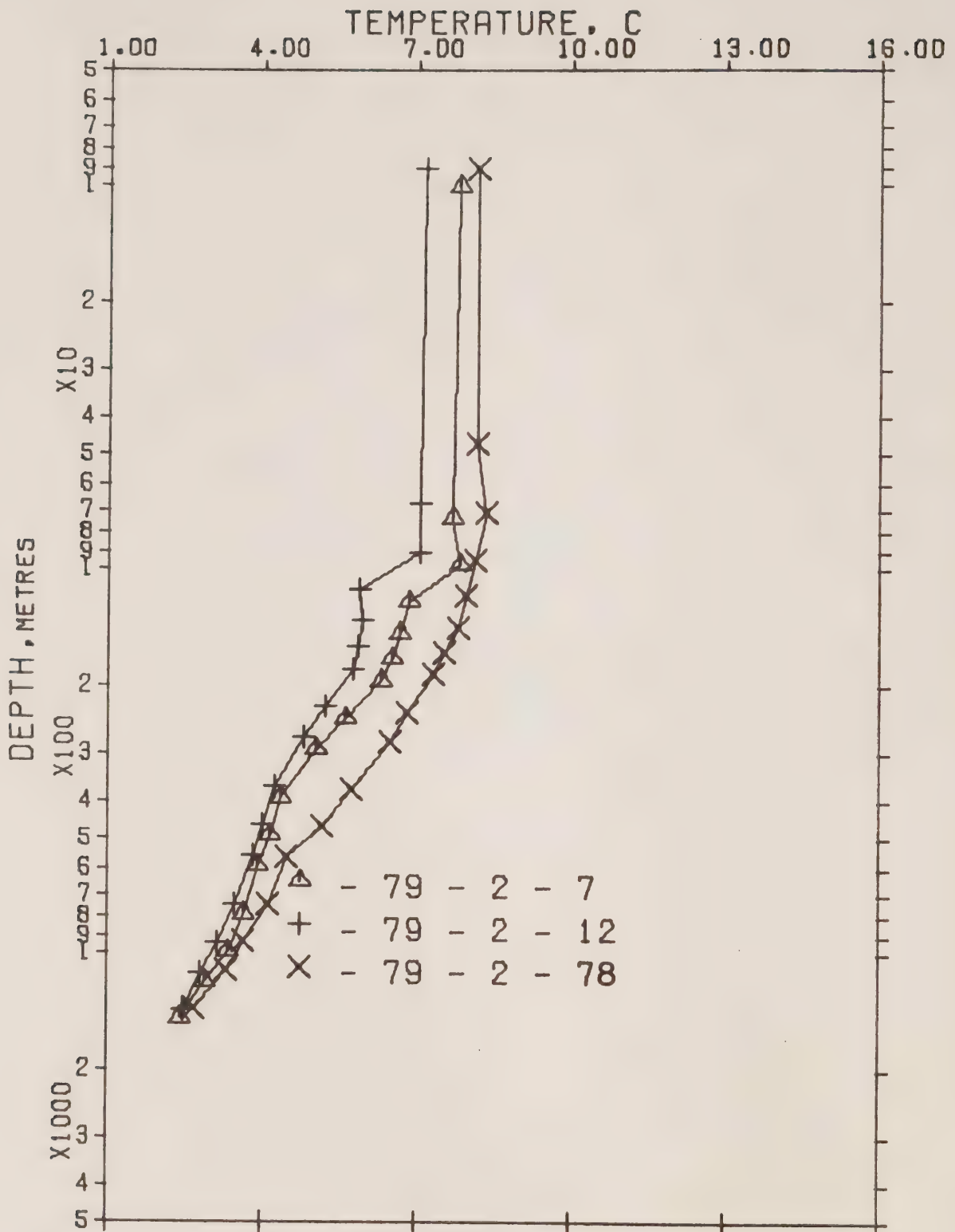


Figure 2. Composite plot of temperature vs \log_{10} depth for Line P Stations.

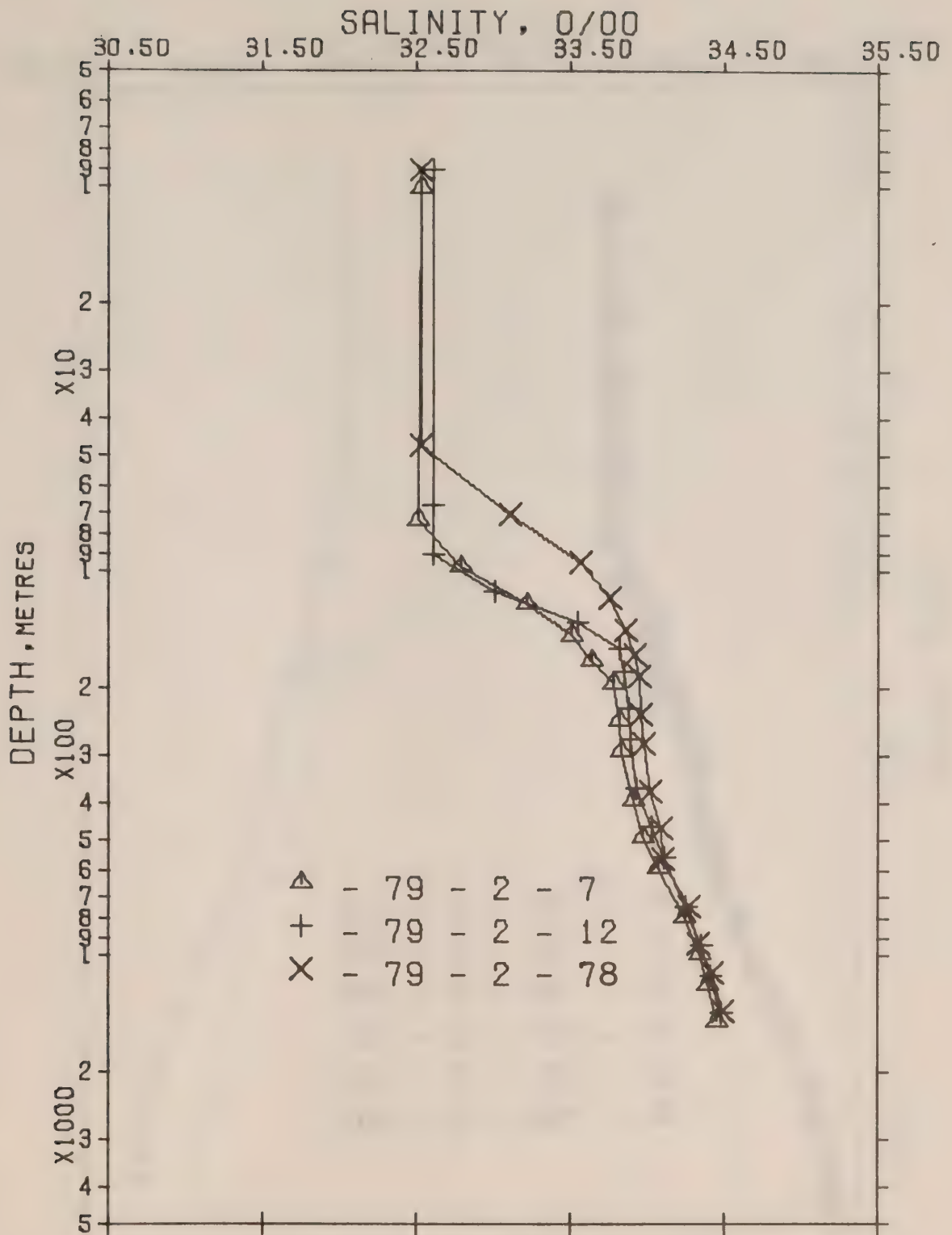


Figure 3. Composite plot of salinity vs \log_{10} depth for Line P Stations.

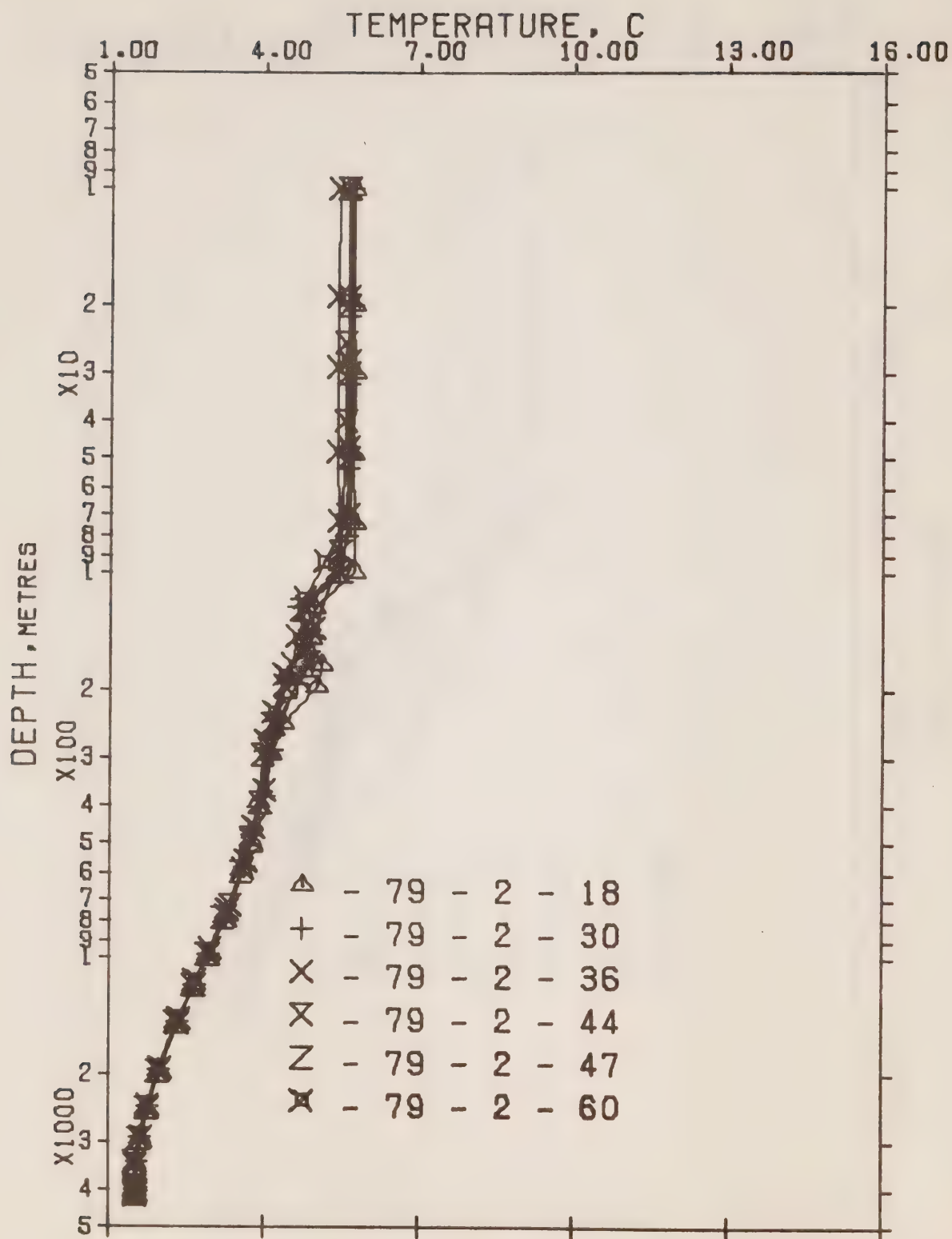


Figure 4(a). Composite plot of temperature vs \log_{10} depth for Station P.

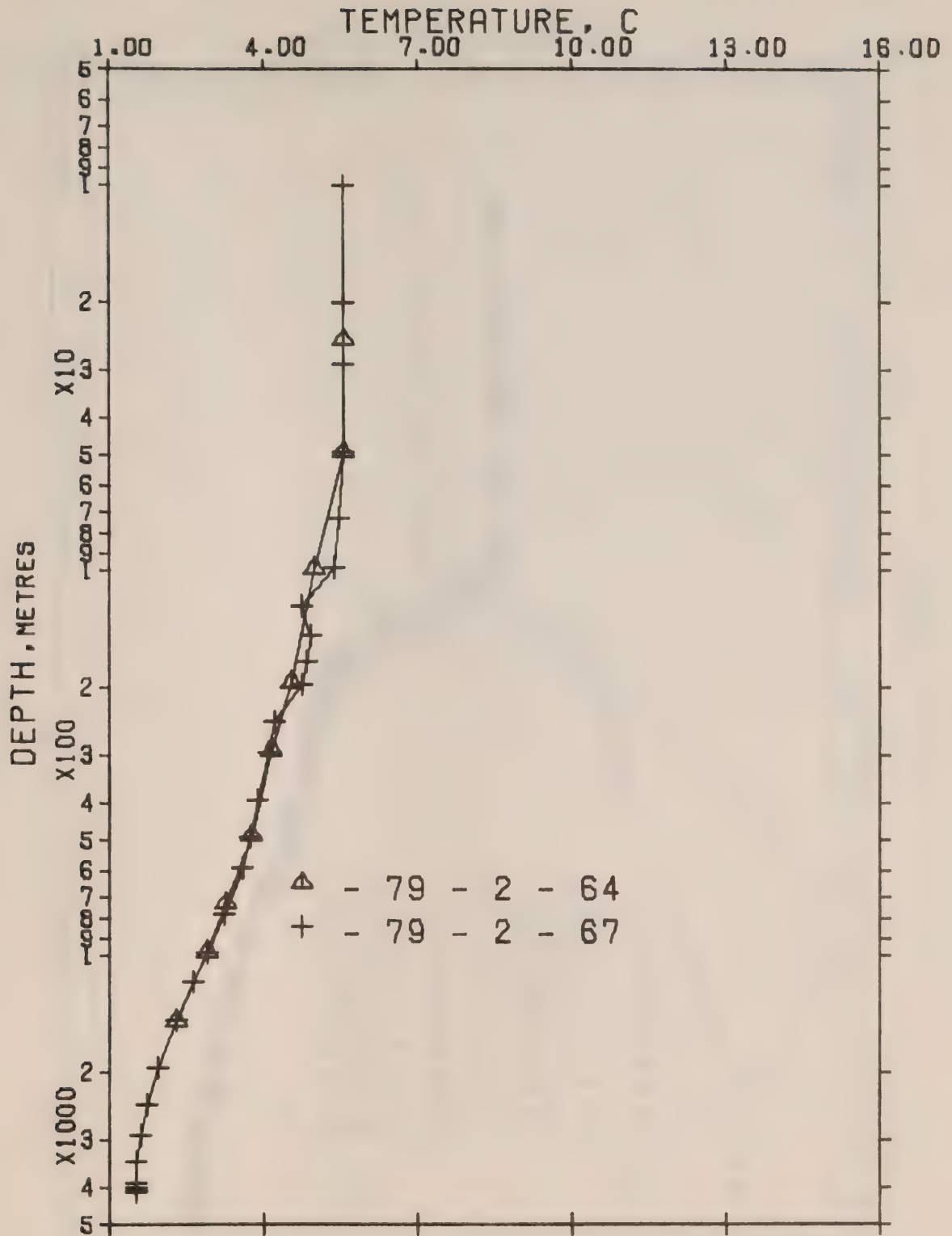


Figure 4(b). Composite plot of temperature vs \log_{10} depth for Station P.

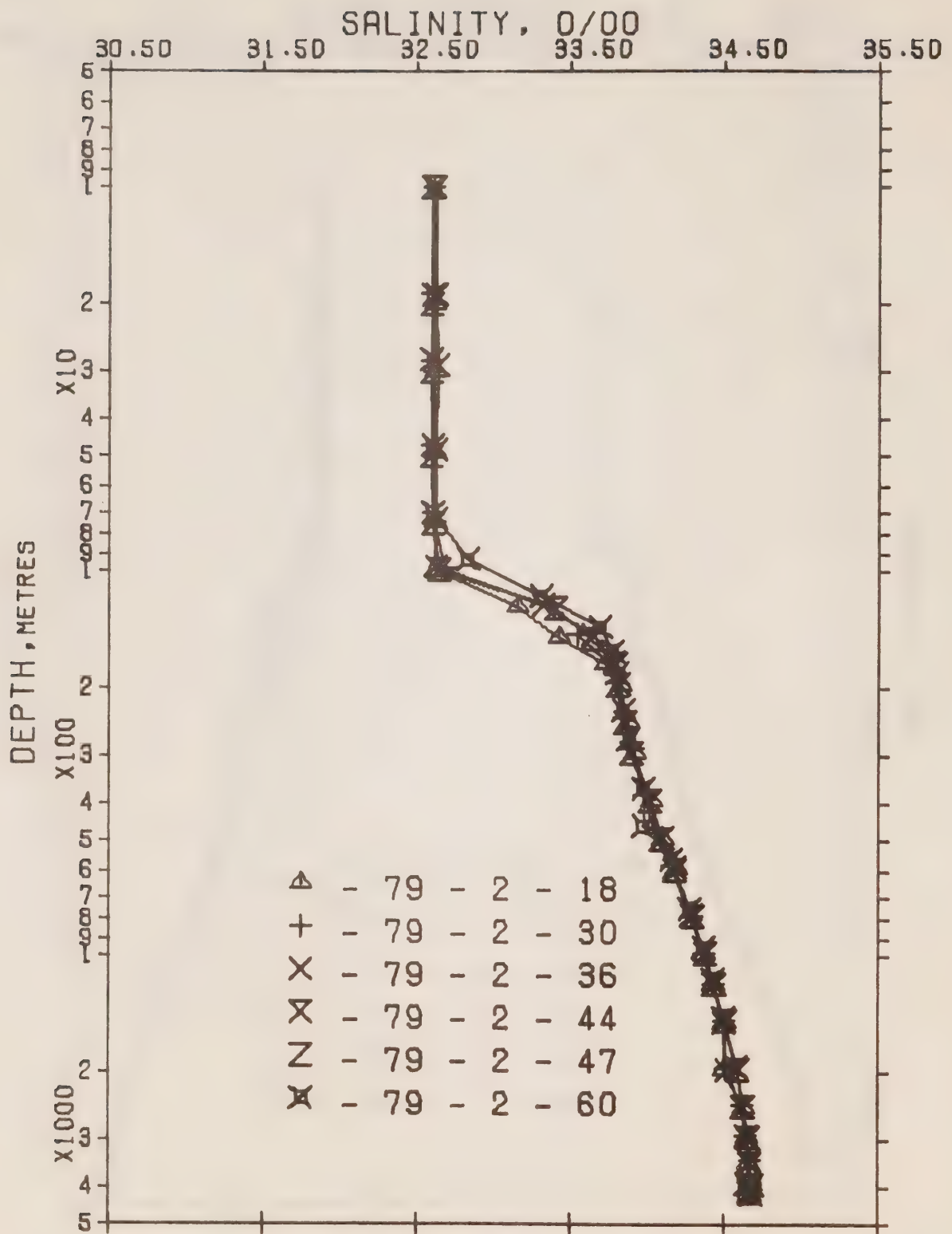


Figure 5(a). Composite plot of salinity vs \log_{10} depth for Station P.

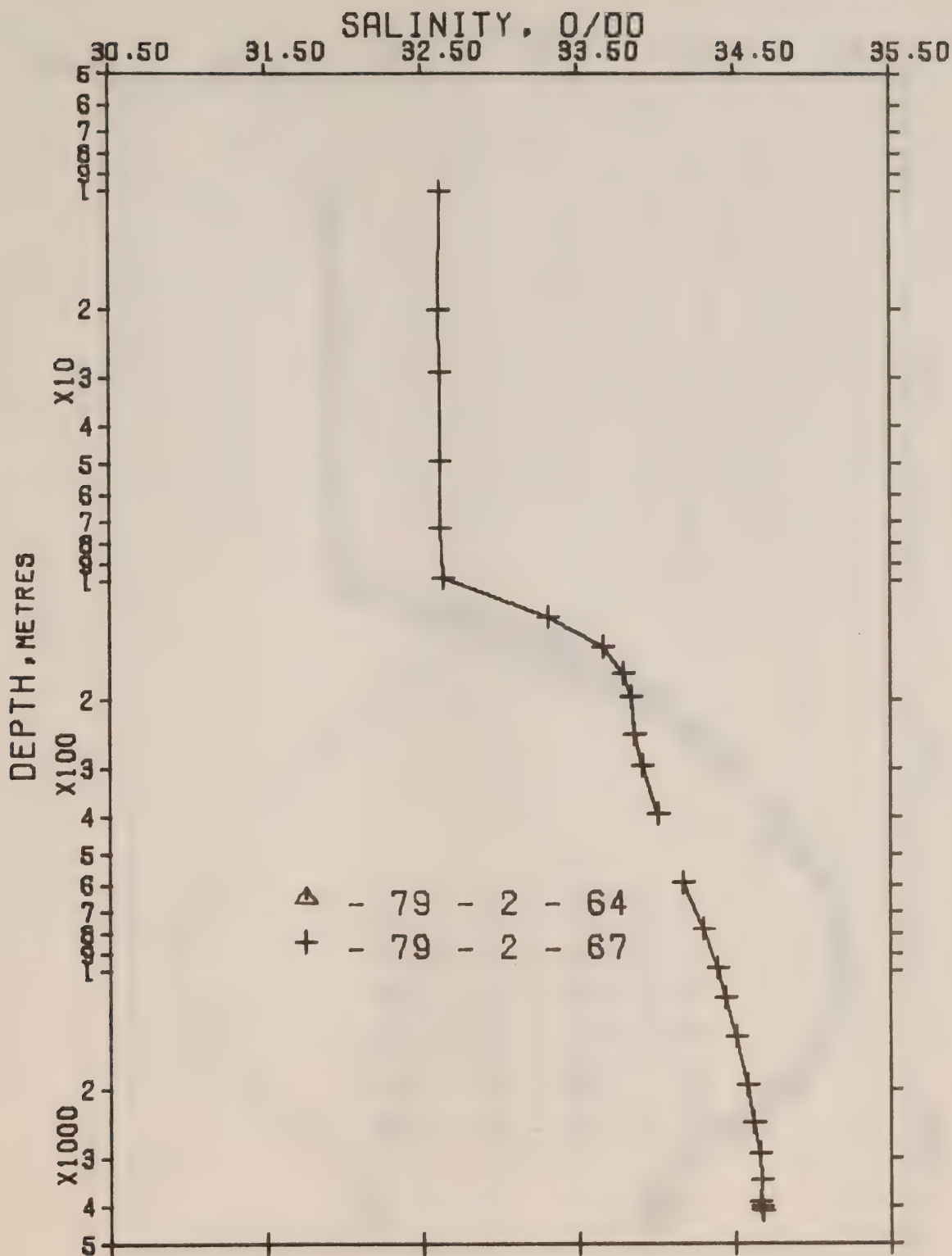


Figure 5(b). Composite plot of salinity vs \log_{10} depth for Station P.

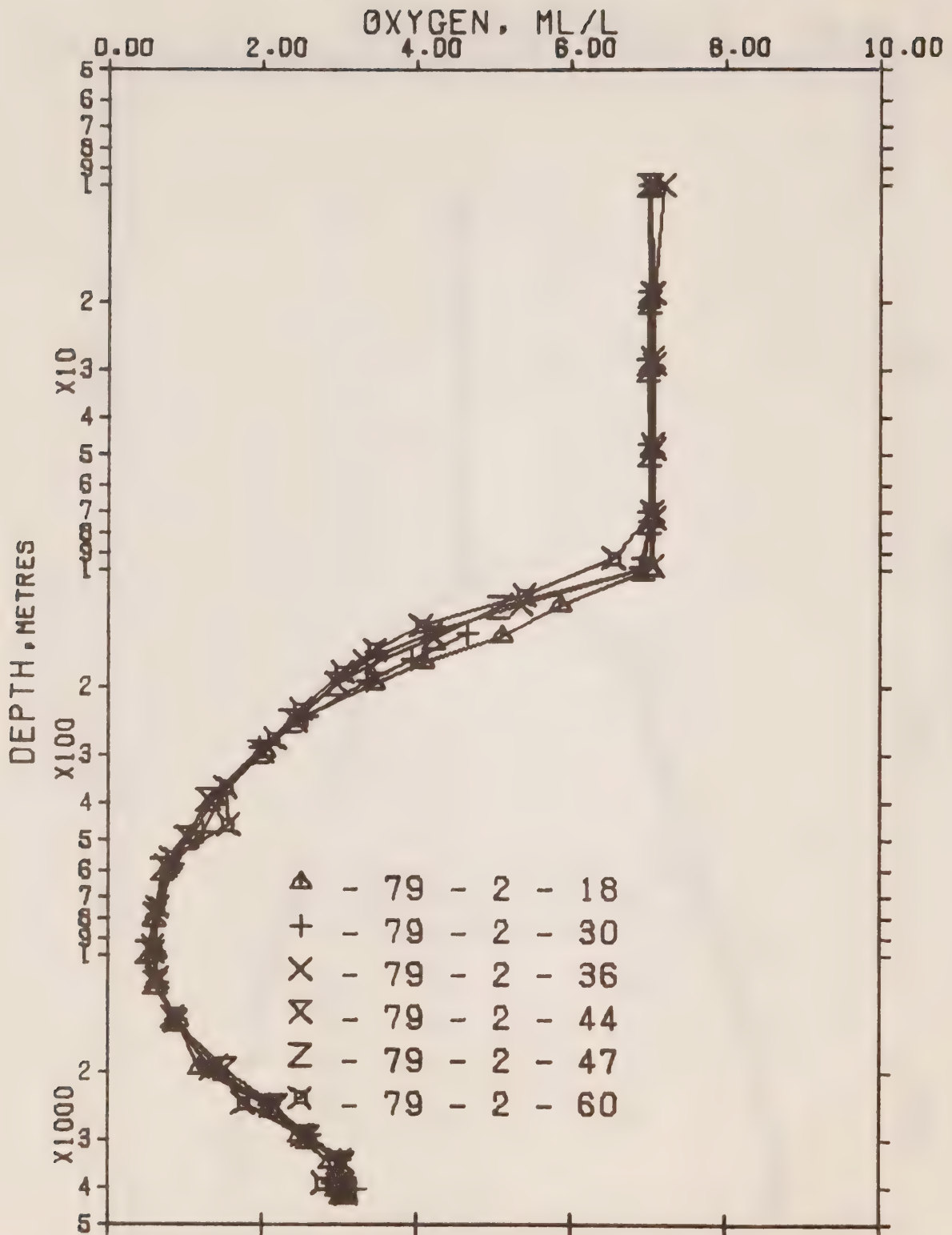


Figure 6(a). Composite plot of oxygen vs \log_{10} depth for Station P.

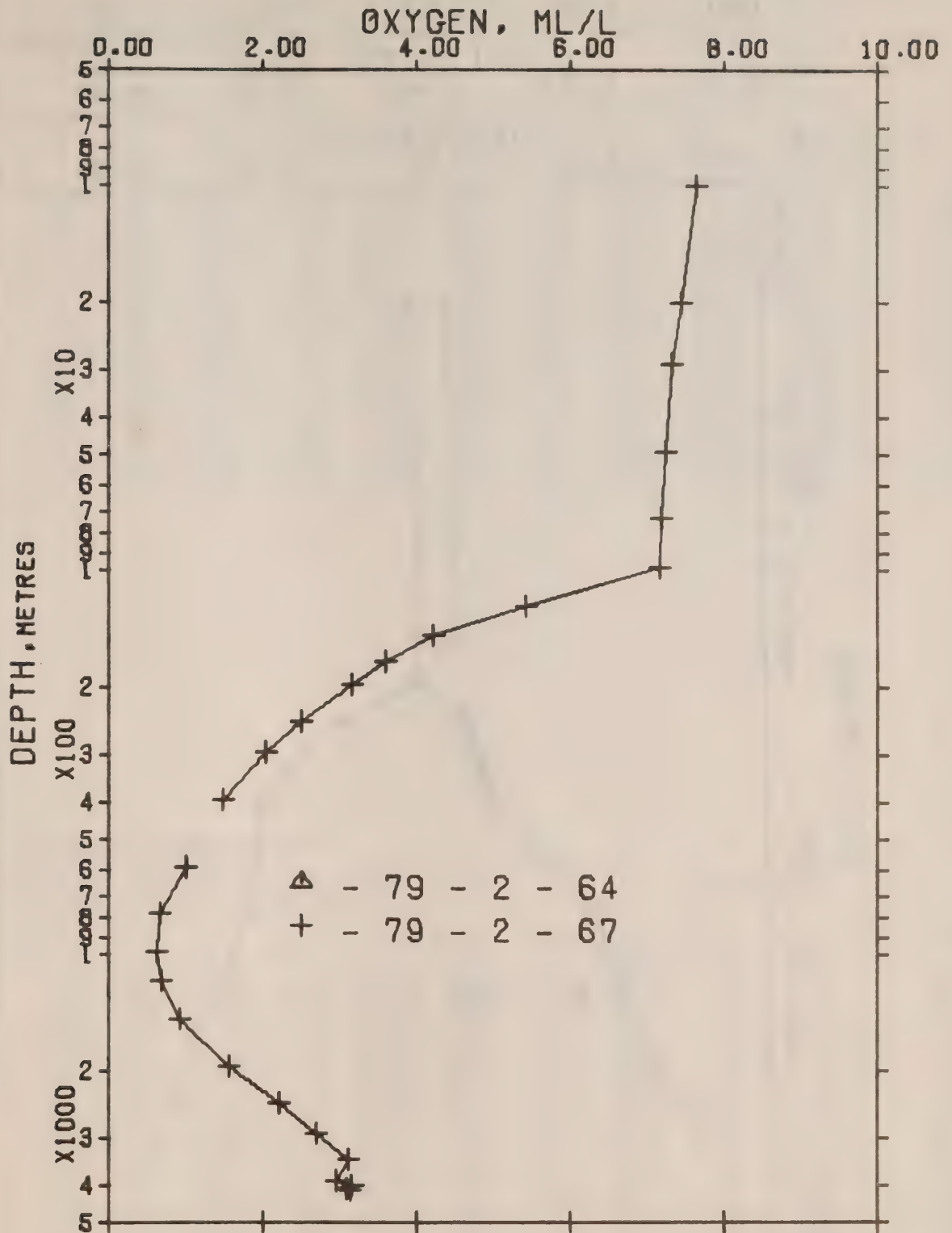
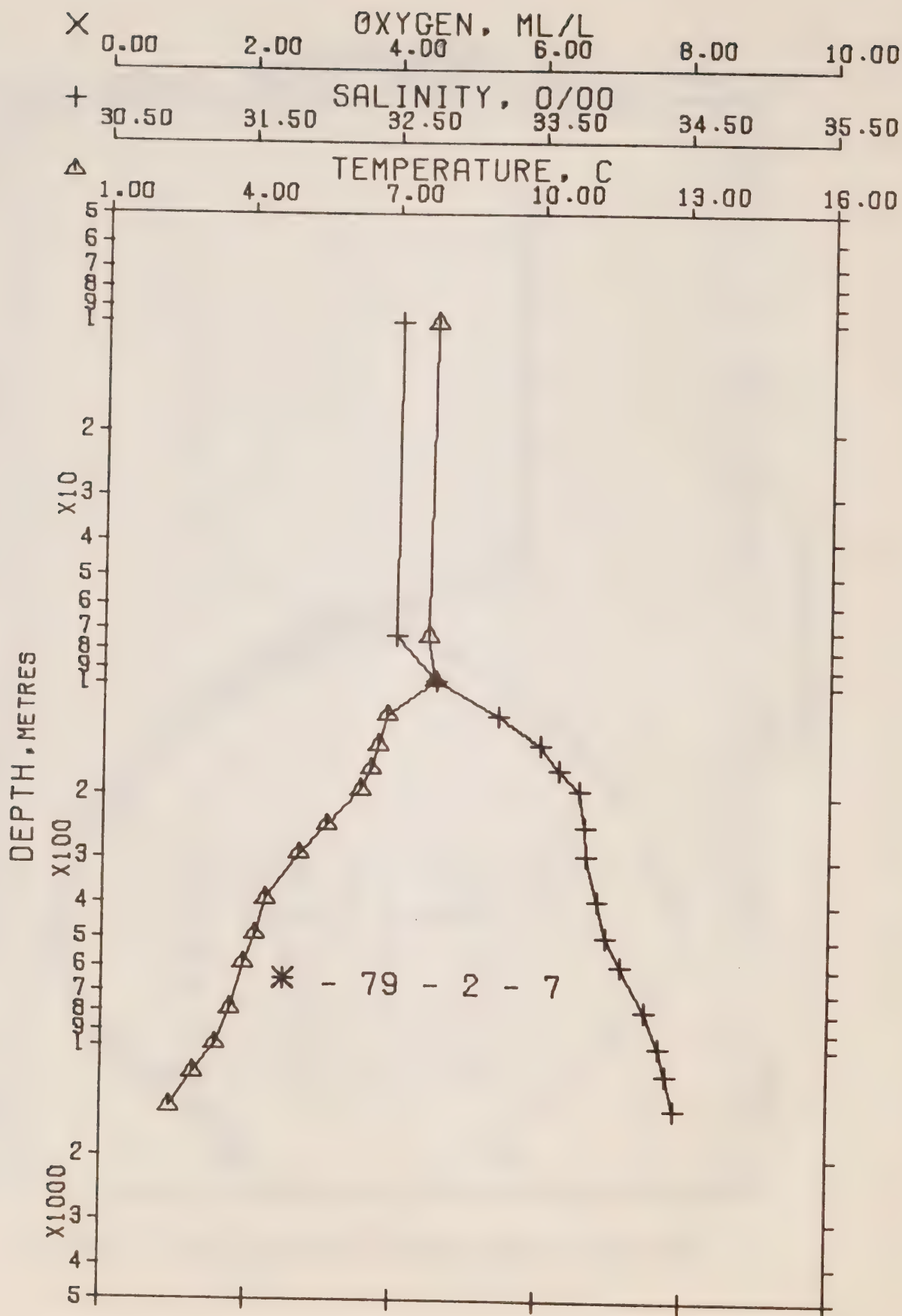


Figure 6(b). Composite plot of oxygen vs log₁₀ depth for Station P.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 7 DATE 10/ 2/79 GMT 20.8

POSITION 49- 2.0 N, 130-40.0 W

STATION 6

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.81	32.553	0	25.405	258.1	7.81	258.1	.00	.00		1479.
10	7.82	32.533	10	25.388	259.9	7.82	259.7	.26	.01		1479.
73	7.70	32.513	73	25.390	260.7	7.69	259.5	1.92	.72		1480.
98	7.84	32.768	97	25.585	242.5	7.83	240.9	2.53	1.26		1481.
122	6.85	33.218	121	26.060	197.6	6.84	195.8	3.06	1.85		1478.
147	6.67	33.512	146	26.315	173.7	6.66	171.5	3.53	2.49		1478.
171	6.52	33.640	170	26.435	162.6	6.50	160.1	3.93	3.14		1478.
195	6.30	33.783	194	26.576	149.5	6.28	146.7	4.31	3.85		1478.
245	5.61	33.820	243	26.692	138.8	5.59	135.7	5.02	5.44		1476.
294	5.04	33.829	292	26.766	132.0	5.02	128.6	5.69	7.28		1474.
394	4.36	33.914	391	26.908	119.0	4.33	115.1	6.94	11.65		1473.
494	4.15	33.974	490	26.978	113.1	4.11	108.4	8.10	16.91		1474.
593	3.90	34.072	588	27.081	103.9	3.86	98.5	9.17	22.85		1475.
793	3.65	34.243	786	27.242	90.0	3.59	83.2	11.11	36.46		1477.
993	3.33	34.343	984	27.353	80.4	3.26	72.6	12.81	51.93		1479.
1192	2.90	34.394	1180	27.433	73.1	2.82	64.9	14.33	68.88		1481.
1485	2.41	34.447	1469	27.518	65.2	2.31	56.8	16.36	96.41		1484.

OFFSHORE OCEANOGRAPHY GROUP

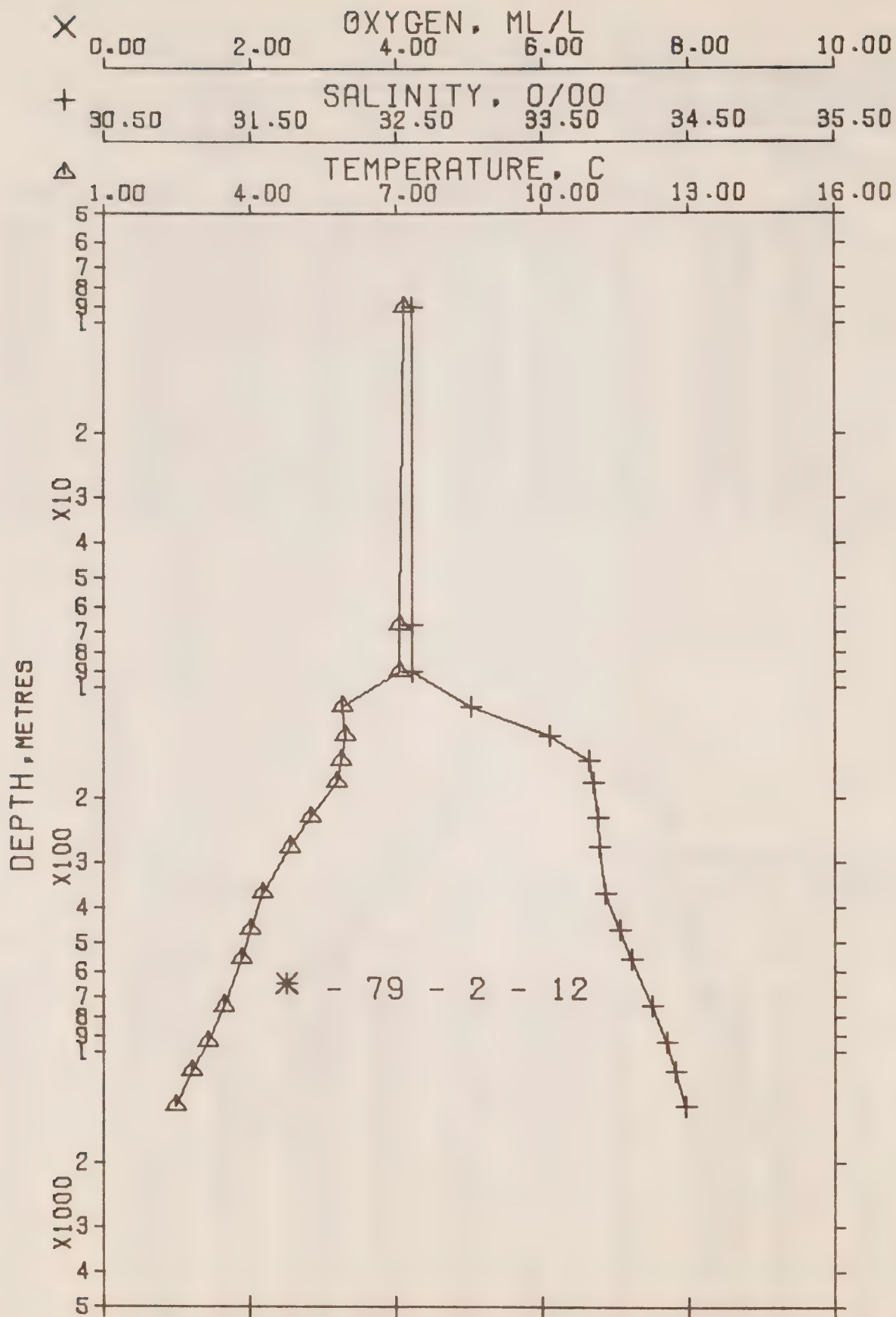
REFERENCE NO. 79- 2- 7 DATE 10/ 2/79 GMT 20.8

POSITION 49- 2.0 N, 130-40.0 W

STATION 6

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.81	32.553	0	25.405	258.1	7.81	258.1	.00	.00		1479.
10	7.82	32.533	10	25.388	259.9	7.82	259.7	.26	.01		1479.
20	7.78	32.526	20	25.389	260.0	7.78	259.6	.52	.05		1479.
30	7.76	32.522	30	25.389	260.1	7.75	259.6	.78	.12		1479.
50	7.72	32.517	50	25.389	260.3	7.72	259.5	1.30	.33		1479.
75	7.71	32.533	75	25.404	259.3	7.70	258.1	1.96	.75		1480.
100	7.73	32.835	99	25.638	237.5	7.72	235.9	2.59	1.32		1481.
125	6.82	33.259	124	26.095	194.2	6.81	192.4	3.13	1.93		1478.
150	6.65	33.529	149	26.331	172.2	6.64	170.0	3.58	2.57		1478.
175	6.48	33.664	174	26.459	160.4	6.47	157.8	4.00	3.26		1478.
200	6.23	33.787	199	26.589	148.3	6.21	145.5	4.38	3.99		1478.
225	5.87	33.806	223	26.649	142.7	5.85	139.7	4.74	4.77		1477.
250	5.54	33.821	248	26.700	138.0	5.52	134.8	5.09	5.62		1476.
300	4.99	33.835	298	26.776	131.1	4.97	127.7	5.77	7.51		1474.
400	4.35	33.918	397	26.913	118.6	4.32	114.6	7.01	11.93		1473.
500	4.13	33.981	496	26.985	112.5	4.10	107.7	8.17	17.26		1474.
600	3.89	34.079	595	27.088	103.3	3.85	97.9	9.25	23.30		1475.
700	3.76	34.170	694	27.173	95.9	3.71	89.8	10.24	29.88		1476.
800	3.64	34.247	793	27.247	89.6	3.58	82.8	11.17	36.96		1477.
900	3.47	34.299	892	27.304	84.6	3.41	77.2	12.04	44.50		1478.
1000	3.31	34.345	991	27.356	80.2	3.24	72.3	12.86	52.47		1479.
1200	2.88	34.396	1188	27.436	72.9	2.80	64.7	14.39	69.60		1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 12

DATE 11/ 2/79

GMT 21.8

POSITION 49-34.0 N, 138-40.0 W

STATION 10

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.18	32.611	0	25.539	245.4	7.18	245.4	.00	.00		1477.
9	7.15	32.609	9	25.541	245.3	7.15	245.2	.22	.01		1477.
67	7.07	32.607	67	25.550	245.2	7.06	244.2	1.65	.57		1477.
91	7.06	32.606	90	25.551	245.5	7.05	244.1	2.23	1.03		1478.
113	5.90	33.009	112	26.017	201.3	5.89	199.9	2.72	1.54		1474.
136	5.95	33.555	135	26.441	161.4	5.94	159.6	3.14	2.07		1475.
159	5.86	33.818	158	26.659	141.0	5.85	138.8	3.49	2.59		1476.
182	5.76	33.854	181	26.700	137.3	5.74	134.9	3.81	3.15		1476.
228	5.23	33.878	226	26.783	129.8	5.21	127.1	4.41	4.41		1474.
275	4.80	33.886	273	26.838	124.8	4.78	121.8	5.02	5.96		1473.
368	4.23	33.934	365	26.938	115.8	4.20	112.3	6.13	9.61		1472.
463	4.01	34.034	459	27.040	106.8	3.98	102.5	7.19	14.07		1473.
558	3.83	34.114	553	27.122	99.7	3.79	94.7	8.16	19.16		1474.
750	3.47	34.254	743	27.269	86.8	3.42	80.7	9.95	31.01		1476.
941	3.14	34.346	932	27.373	77.7	3.07	70.8	11.52	44.51		1478.
1132	2.80	34.413	1121	27.457	70.2	2.72	62.7	12.93	59.42		1480.
1415	2.46	34.476	1400	27.537	63.3	2.36	55.0	14.82	83.84		1483.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 12

DATE 11/ 2/79

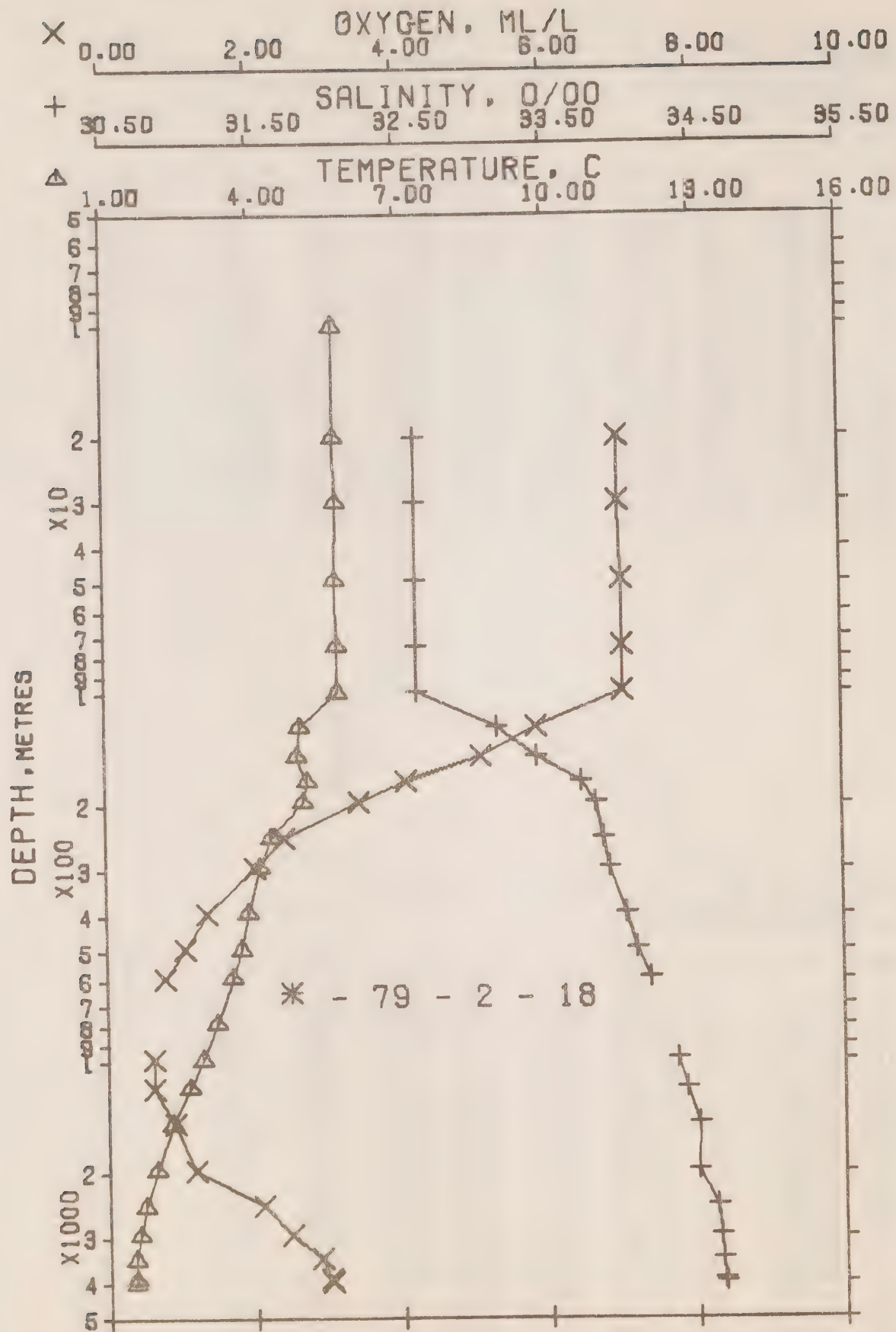
GMT 21.8

POSITION 49-34.0 N, 138-40.0 W

STATION 10

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.18	32.611	0	25.539	245.4	7.18	245.4	.00	.00		1477.
10	7.15	32.609	10	25.542	245.3	7.15	245.1	.25	.01		1477.
20	7.12	32.608	20	25.545	245.1	7.12	244.8	.49	.05		1477.
30	7.10	32.608	30	25.547	245.1	7.10	244.6	.74	.11		1477.
50	7.08	32.607	50	25.549	245.1	7.08	244.4	1.23	.31		1477.
75	7.07	32.607	75	25.551	245.3	7.06	244.2	1.84	.70		1477.
100	6.53	32.788	99	25.764	225.3	6.53	223.9	2.45	1.25		1476.
125	5.93	33.311	124	26.252	179.2	5.92	177.6	2.95	1.82		1475.
150	5.89	33.720	149	26.578	148.6	5.88	146.5	3.36	2.39		1475.
175	5.79	33.843	174	26.688	138.4	5.78	136.1	3.71	2.97		1476.
200	5.54	33.864	199	26.735	134.2	5.52	131.6	4.05	3.62		1475.
225	5.26	33.877	223	26.778	130.2	5.24	127.5	4.38	4.34		1474.
250	5.02	33.882	248	26.810	127.3	5.00	124.4	4.70	5.11		1474.
300	4.63	33.900	298	26.868	122.1	4.61	118.9	5.32	6.86		1473.
400	4.15	33.971	397	26.975	112.5	4.12	108.7	6.50	11.05		1473.
500	3.94	34.067	496	27.074	103.8	3.90	99.3	7.58	15.99		1473.
600	3.74	34.149	595	27.158	96.5	3.70	91.3	8.58	21.61		1474.
700	3.55	34.222	694	27.235	89.8	3.50	84.0	9.51	27.77		1475.
800	3.38	34.280	793	27.299	84.2	3.32	77.9	10.38	34.41		1476.
900	3.20	34.328	892	27.353	79.5	3.14	72.7	11.20	41.50		1477.
1000	3.03	34.368	990	27.401	75.3	2.96	68.1	11.97	48.99		1478.
1200	2.71	34.429	1188	27.478	68.4	2.63	60.7	13.40	65.00		1480.



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 18
POSITION 50- .0 N, 145-
HYDROGRAPHIC CAST DATA

DATE 16/ 2/79 GMT 18.6
.0 W

STATION P

OBSERVED DATA

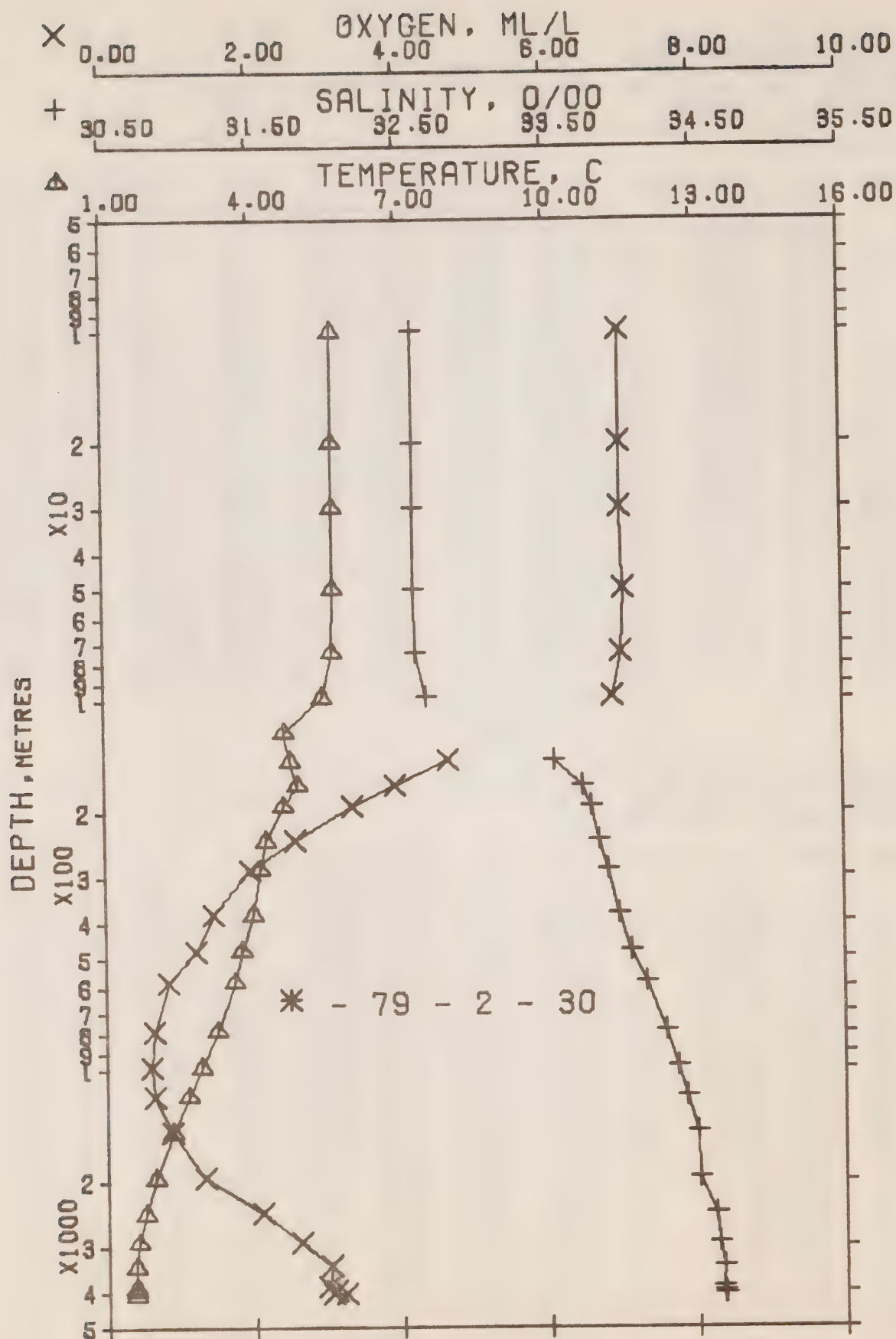
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.73	32.621	0	25.732	227.1	5.73	227.1	.00	.00	6.99	1471.
10	5.72	32.618*	10	25.731	227.3	5.72	227.2	.23	.01	6.99*	1471.
20	5.72	32.617	20	25.730	227.5	5.72	227.2	.46	.05	6.99	1471.
30	5.74	32.617	30	25.727	227.8	5.74	227.4	.69	.11	7.00	1471.
49	5.72	32.618	49	25.731	227.7	5.72	227.1	1.12	.28	7.04	1472.
74	5.74	32.617	74	25.727	228.3	5.73	227.4	1.70	.64	7.05	1472.
100	5.73	32.617	99	25.729	228.4	5.72	227.3	2.28	1.17	7.03	1472.
124	4.97	33.156	123	26.242	179.8	4.96	178.5	2.78	1.73	5.87	1470.
149	4.89	33.430	148	26.467	158.7	4.88	157.1	3.20	2.32	5.10	1471.
174	5.10	33.729	173	26.680	138.9	5.09	136.9	3.58	2.93	4.08	1473.
198	5.01	33.833	197	26.772	130.4	4.99	128.1	3.90	3.55	3.44	1473.
248	4.37	33.877	246	26.878	120.5	4.35	118.1	4.52	4.96	2.41	1471.
297	4.11	33.918	295	26.938	115.1	4.09	112.4	5.10	6.57	2.02	1471.
396	3.87	34.028	393	27.050	105.2	3.84	101.7	6.19	10.41	1.36	1471.
495	3.74	34.097	491	27.117	99.5	3.70	95.2	7.21	15.03	1.06	1473.
595	3.56	34.189	590	27.208	91.5	3.52	86.6	8.16	20.33	.78	1474.
792	3.21	34.293*	785	27.324	81.5	3.16	75.5	9.86	32.32	.69*	1476.
991	2.91	34.374	981	27.416	73.5	2.84	66.7	11.39	46.22	.61	1478.
1189	2.66	34.431	1177	27.484	67.7	2.58	60.2	12.79	61.78	.63	1480.
1489	2.30	34.506	1473	27.574	59.7	2.20	51.5	14.68	87.46	.89	1483.
1993	1.95	34.501	1969	27.598	58.0	1.81	49.0	17.70	141.29	1.18	1490.
2496	1.73	34.631	2463	27.719	47.6	1.55	37.3	20.32	200.93	2.10	1498.
2994	1.59	34.649	2951	27.744	46.0	1.37	34.7	22.64	265.90	2.49	1506.
3484	1.52	34.656	3430	27.755	45.8	1.25	33.4	24.89	340.11	2.89	1514.
3962	1.51	34.674	3896	27.770	45.6	1.19	31.6	27.06	422.51	2.99	1522.
4055	1.52	34.675	3987	27.770	45.9	1.19	31.5	27.48	439.96	3.02	1524.

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 18
POSITION 50- .0 N, 145-
INTERPOLATED TO STANDARD PRESSURE

DATE 16/ 2/79 GMT 18.6
.0 W

STATION P

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.73	32.621	0	25.732	227.1	5.73	227.1	.00	.00	6.99	1471.
10	5.72	32.618	10	25.731	227.3	5.72	227.2	.23	.01	6.99	1471.
20	5.72	32.617	20	25.730	227.5	5.72	227.2	.46	.05	6.99	1471.
30	5.74	32.617	30	25.727	227.8	5.74	227.4	.69	.11	7.00	1471.
50	5.72	32.618	50	25.731	227.7	5.72	227.1	1.14	.29	7.04	1472.
75	5.74	32.617	75	25.727	228.3	5.73	227.4	1.71	.65	7.04	1472.
100	5.73	32.617	99	25.729	228.4	5.72	227.3	2.28	1.17	7.03	1472.
125	4.97	33.170	124	26.254	178.7	4.96	177.4	2.80	1.75	5.83	1470.
150	4.90	33.443	149	26.477	157.8	4.89	156.2	3.22	2.34	5.06	1471.
175	5.10	33.733	174	26.683	138.6	5.08	136.6	3.59	2.95	4.06	1473.
200	4.99	33.835	199	26.776	130.0	4.97	127.7	3.92	3.59	3.41	1473.
225	4.65	33.858	223	26.833	124.7	4.63	122.4	4.24	4.28	2.86	1472.
250	4.36	33.879	248	26.881	120.3	4.34	117.8	4.55	5.02	2.39	1471.
300	4.10	33.922	298	26.941	114.8	4.08	112.0	5.13	6.67	2.00	1471.
400	3.86	34.031	397	27.053	105.0	3.84	101.4	6.23	10.58	1.35	1472.
500	3.73	34.102	496	27.122	99.1	3.69	94.8	7.26	15.27	1.05	1473.
600	3.55	34.192	595	27.212	91.2	3.51	86.2	8.21	20.60	.78	1474.
700	3.36	34.248	694	27.274	85.8	3.31	80.3	9.09	26.45	.73	1475.
800	3.20	34.296	793	27.328	81.1	3.14	75.1	9.92	32.83	.68	1476.
900	3.04	34.339	892	27.377	76.9	2.98	70.4	10.71	39.67	.64	1477.
1000	2.90	34.377	990	27.420	73.2	2.83	66.3	11.46	46.93	.61	1478.
1200	2.65	34.434	1188	27.487	67.4	2.56	59.8	12.87	62.67	.64	1480.
1500	2.29	34.506	1484	27.575	59.6	2.19	51.4	14.74	88.43	.90	1484.
2000	1.95	34.503	1976	27.600	57.9	1.81	48.8	17.74	142.09	1.19	1490.
2500	1.73	34.631	2467	27.719	47.6	1.55	37.3	20.33	201.38	2.10	1498.
3000	1.59	34.649	2957	27.744	46.0	1.37	34.7	22.66	266.69	2.49	1506.
3500	1.52	34.657	3445	27.755	45.8	1.25	33.3	24.96	342.67	2.89	1514.
4000	1.51	34.674	3933	27.770	45.7	1.19	31.6	27.23	429.57	3.00	1523.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 30

DATE 22/ 2/79

GMT 18.3

POSITION 50- .0 N, 145-

.0 W

STATION P

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.69	32.611	0	25.729	227.4	5.69	227.4	.00	.00	7.01	1471.
10	5.69	32.608	10	25.726	227.7	5.69	227.6	.23	.01	7.03	1471.
20	5.69	32.609	20	25.727	227.7	5.69	227.5	.46	.05	7.03	1471.
30	5.69	32.607	30	25.726	228.0	5.69	227.6	.69	.11	7.02	1471.
50	5.67	32.609	50	25.729	227.8	5.67	227.2	1.15	.29	7.06	1471.
74	5.64	32.619	74	25.741	227.0	5.63	226.1	1.70	.65	7.02	1472.
99	5.43	32.693	98	25.824	219.3	5.42	218.2	2.24	1.12	6.90	1471.
123	4.67	33.163*	122	26.280	176.0	4.66	174.8	2.72	1.66	5.66*	1469.
147	4.78	33.549	146	26.574	148.5	4.77	147.0	3.11	2.19	4.65	1471.
171	4.94	33.736	170	26.704	136.5	4.93	134.6	3.45	2.75	3.94	1472.
194	4.63	33.801	193	26.790	128.5	4.62	126.5	3.76	3.32	3.36	1471.
242	4.26	33.848	240	26.867	121.5	4.24	119.1	4.35	4.64	2.58	1470.
289	4.14	33.908	287	26.927	116.1	4.12	113.4	4.91	6.16	1.96	1471.
384	3.99	33.984	381	27.002	109.7	3.96	106.2	5.98	9.83	1.45	1472.
481	3.77	34.056	477	27.082	102.8	3.74	98.6	7.01	14.37	1.23	1472.
583	3.60	34.159	578	27.180	94.1	3.56	89.2	8.01	19.79	.84	1474.
791	3.24	34.286	784	27.316	82.3	3.19	76.2	9.84	32.57	.64	1476.
991	2.92	34.370	981	27.412	73.9	2.85	67.0	11.39	46.65	.60	1478.
1189	2.64	34.430	1177	27.485	67.5	2.56	60.1	12.79	62.19	.65	1480.
1487	2.33	34.496	1471	27.564	60.7	2.23	52.5	14.69	87.99	.88	1484.
1982	1.95	34.507	1958	27.603	57.5	1.81	48.6	17.62	139.87	1.31	1490.
2475	1.75	34.621	2442	27.709	48.5	1.57	38.2	20.19	198.14	2.10	1498.
2966	1.61	34.645	2923	27.739	46.4	1.39	35.1	22.52	262.62	2.61	1505.
3454	1.54	34.668	3400	27.763	45.2	1.27	32.6	24.74	335.20	3.02	1513.
3938	1.53	34.663+	3873	27.759	46.6	1.21	32.6	26.97	419.49	2.98+	1522.
4035	1.53	34.670	3967	27.765	46.4	1.20	32.0	27.42	437.71	3.07	1523.
4121	1.53	34.670	4051	27.765	46.6	1.19	31.9	27.82	454.37	3.04	1525.
4131	1.53	34.678	4061	27.771	46.1	1.19	31.3	27.87	456.37	3.23	1525.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 30

DATE 22/ 2/79

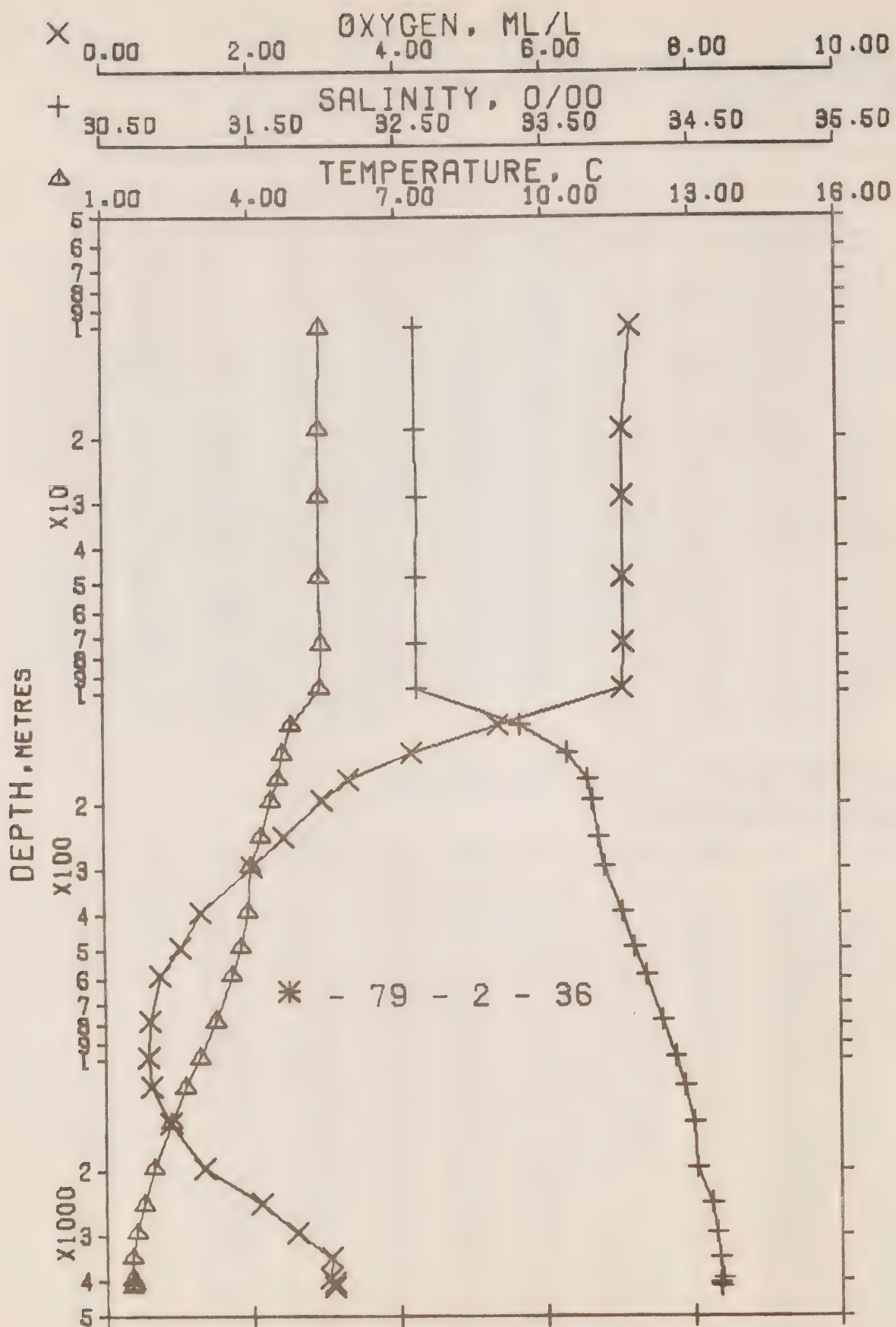
GMT 18.3

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.69	32.611	0	25.729	227.4	5.69	227.4	.00	.00	7.01	1471.
10	5.69	32.608	10	25.726	227.7	5.69	227.6	.23	.01	7.03	1471.
20	5.69	32.609	20	25.727	227.7	5.69	227.5	.46	.05	7.03	1471.
30	5.69	32.607	30	25.726	228.0	5.69	227.6	.69	.11	7.02	1471.
50	5.67	32.609	50	25.729	227.8	5.67	227.2	1.15	.29	7.06	1471.
75	5.63	32.621	75	25.743	226.8	5.63	225.9	1.71	.65	7.02	1472.
100	5.38	32.722	99	25.853	216.6	5.37	215.5	2.27	1.15	6.82	1471.
125	4.68	33.201	124	26.309	173.3	4.67	172.1	2.75	1.71	5.57	1469.
150	4.80	33.574	149	26.591	146.9	4.79	145.3	3.15	2.26	4.56	1471.
175	4.89	33.747	174	26.719	135.1	4.87	133.2	3.50	2.84	3.84	1472.
200	4.58	33.807	199	26.800	127.6	4.57	125.5	3.83	3.47	3.26	1471.
225	4.38	33.833	223	26.841	123.8	4.37	121.5	4.14	4.15	2.84	1471.
250	4.24	33.859	248	26.878	120.5	4.22	118.1	4.45	4.89	2.47	1470.
300	4.12	33.918	298	26.937	115.3	4.10	112.5	5.04	6.53	1.90	1471.
400	3.95	33.997	397	27.017	108.4	3.92	104.8	6.15	10.52	1.41	1472.
500	3.74	34.077	496	27.102	101.0	3.70	96.7	7.20	15.34	1.15	1473.
600	3.57	34.171	595	27.193	93.0	3.52	88.0	8.17	20.75	.82	1474.
700	3.38	34.235	694	27.262	87.0	3.34	81.4	9.07	26.71	.72	1475.
800	3.22	34.290	793	27.321	81.9	3.17	75.8	9.91	33.15	.64	1476.
900	3.06	34.334	892	27.371	77.5	2.99	71.0	10.71	40.05	.62	1477.
1000	2.91	34.373	990	27.416	73.6	2.84	66.7	11.46	47.36	.60	1478.
1200	2.63	34.433	1188	27.488	67.3	2.55	59.8	12.87	63.09	.66	1480.
1500	2.32	34.496	1484	27.565	60.6	2.22	52.4	14.76	89.17	.90	1484.
2000	1.94	34.512	1976	27.607	57.2	1.80	48.1	17.72	141.96	1.34	1490.
2500	1.74	34.622	2467	27.711	48.4	1.56	38.0	20.31	201.23	2.13	1498.
3000	1.60	34.647	2957	27.741	46.3	1.38	35.0	22.68	267.45	2.64	1506.
3500	1.54	34.667	3445	27.762	45.3	1.27	32.6	24.95	342.65	3.01	1514.
4000	1.53	34.667	3933	27.763	46.5	1.21	32.2	27.26	431.11	3.04	1523.
4100	1.53	34.670	4031	27.765	46.5	1.19	32.0	27.72	450.27	3.05	1525.



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 36
POSITION 50- .0 N, 145- .0 W
HYDROGRAPHIC CAST DATA

DATE 28/ 2/79

GMT 18.2

STATION P

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.45	32.626	0	25.769	223.6	5.45	223.6	.00	.00	7.09	1470.
10	5.43	32.625	10	25.770	223.5	5.43	223.4	.22	.01	7.21	1470.
19	5.42	32.627	19	25.773	223.3	5.42	223.1	.43	.04	7.07	1470.
29	5.42	32.639	29	25.782	222.5	5.42	222.2	.65	.10	7.08	1470.
48	5.41	32.628	48	25.775	223.4	5.41	222.9	1.08	.27	7.09	1470.
73	5.43	32.627	73	25.772	224.0	5.42	223.2	1.64	.61	7.09	1471.
98	5.42	32.633	97	25.778	223.7	5.41	222.6	2.20	1.10	7.06	1471.
123	4.82	33.328	122	26.395	165.3	4.81	164.0	2.69	1.65	5.35	1470.
147	4.64	33.654	146	26.672	139.2	4.63	137.6	3.05	2.15	4.18	1470.
172	4.53	33.791	171	26.793	128.0	4.52	126.2	3.39	2.70	3.32	1470.
197	4.40	33.820	196	26.830	124.7	4.39	122.7	3.71	3.30	2.96	1470.
247	4.18	33.858	245	26.883	119.9	4.16	117.6	4.31	4.66	2.44	1470.
297	3.98	33.903	295	26.939	114.9	3.96	112.2	4.90	6.30	2.00	1470.
396	3.90	34.021	393	27.041	106.1	3.87	102.5	5.99	10.16	1.30	1472.
494	3.77	34.100	490	27.117	99.6	3.73	95.3	7.00	14.73	1.01	1473.
589	3.57	34.175	584	27.196	92.6	3.53	87.7	7.91	19.75	.73	1474.
787	3.24	34.288	780	27.317	82.1	3.19	76.1	9.64	31.83	.60	1476.
991	2.91	34.375	981	27.417	73.4	2.84	66.6	11.21	46.10	.57	1478.
1193	2.63	34.438	1181	27.492	66.9	2.55	59.4	12.63	61.85	.62	1480.
1495	2.31	34.504	1479	27.572	59.9	2.21	51.7	14.53	87.82	.88	1484.
1996	1.95	34.522	1972	27.615	56.5	1.81	47.4	17.46	139.93	1.33	1490.
2497	1.74	34.620	2464	27.709	48.5	1.56	38.2	20.05	199.23	2.12	1498.
2999	1.61	34.653	2956	27.746	46.0	1.39	34.5	22.42	265.49	2.60	1506.
3505	1.52	34.672	3450	27.767	44.7	1.25	32.2	24.71	341.38	3.06	1514.
4014	1.52	34.686+	3947	27.779	45.0	1.19	30.7	26.98	428.67	3.03+	1523.
4117	1.53	34.671	4047	27.766	46.5	1.19	31.9	27.45	448.10	3.10	1525.
4209	1.52	34.674	4137	27.769	46.4	1.17	31.5	27.88	466.35	3.11*	1526.
4220	1.52	34.676	4147	27.771	46.2	1.17	31.4	27.93	468.39	3.11	1527.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 36

DATE 28/ 2/79

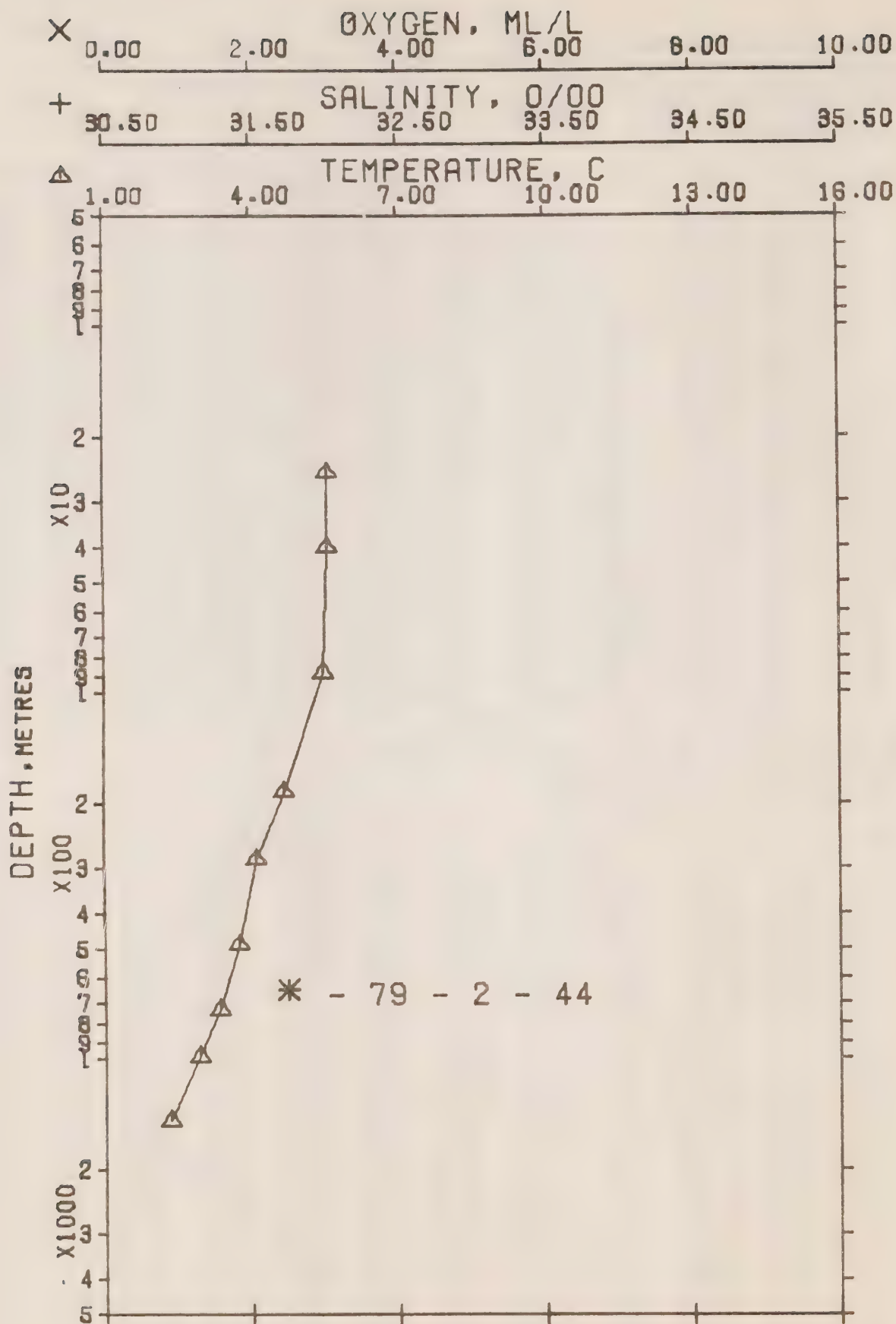
GMT 18.2

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.45	32.626	0	25.769	223.6	5.45	223.6	.00	.00	7.09	1470.
10	5.43	32.625	10	25.770	223.5	5.43	223.4	.22	.01	7.21	1470.
20	5.42	32.628	20	25.774	223.2	5.42	223.0	.45	.05	7.08	1470.
30	5.42	32.638	30	25.782	222.6	5.42	222.3	.67	.10	7.09	1470.
50	5.41	32.628	50	25.775	223.5	5.41	222.9	1.12	.28	7.09	1470.
75	5.43	32.627	75	25.772	224.0	5.42	223.2	1.68	.64	7.09	1471.
100	5.36	32.705	99	25.842	217.6	5.35	216.5	2.25	1.15	6.88	1471.
125	4.80	33.360	124	26.422	162.7	4.79	161.4	2.72	1.69	5.24	1470.
150	4.63	33.671	149	26.688	137.7	4.61	136.2	3.09	2.21	4.07	1470.
175	4.51	33.794	174	26.797	127.6	4.50	125.8	3.42	2.76	3.28	1470.
200	4.39	33.822	199	26.833	124.4	4.37	122.4	3.74	3.36	2.93	1470.
225	4.27	33.842	223	26.861	121.9	4.25	119.7	4.05	4.03	2.65	1470.
250	4.17	33.861	248	26.887	119.6	4.15	117.2	4.35	4.76	2.41	1470.
300	3.98	33.907	298	26.942	114.6	3.96	111.9	4.93	6.40	1.97	1470.
400	3.89	34.024	397	27.044	105.8	3.87	102.2	6.03	10.32	1.29	1472.
500	3.76	34.105	496	27.122	99.1	3.72	94.8	7.06	15.03	.99	1473.
600	3.55	34.182	595	27.204	91.9	3.51	87.0	8.01	20.37	.72	1474.
700	3.37	34.242	694	27.268	86.3	3.32	80.8	8.90	26.26	.66	1475.
800	3.22	34.294	793	27.325	81.5	3.16	75.4	9.74	32.67	.60	1476.
900	3.05	34.339	892	27.376	77.0	2.99	70.5	10.53	39.53	.59	1477.
1000	2.90	34.378	990	27.421	73.1	2.83	66.2	11.28	46.80	.57	1478.
1200	2.62	34.440	1188	27.494	66.7	2.54	59.2	12.68	62.41	.62	1480.
1500	2.31	34.504	1484	27.572	59.9	2.20	51.7	14.56	88.24	.88	1484.
2000	1.95	34.523	1976	27.616	56.4	1.81	47.3	17.48	140.35	1.34	1490.
2500	1.74	34.620	2467	27.710	48.5	1.56	38.2	20.06	199.56	2.12	1498.
3000	1.61	34.653	2956	27.746	46.0	1.39	34.5	22.42	265.56	2.61	1506.
3500	1.52	34.672	3445	27.767	44.7	1.25	32.2	24.68	340.61	3.05	1514.
4000	1.52	34.686	3933	27.778	45.0	1.20	30.8	26.92	426.05	3.03	1523.
4100	1.53	34.673	4031	27.768	46.3	1.19	31.7	27.37	444.82	3.09	1524.
4200	1.52	34.674	4128	27.769	46.4	1.17	31.5	27.84	464.51	3.11	1526.

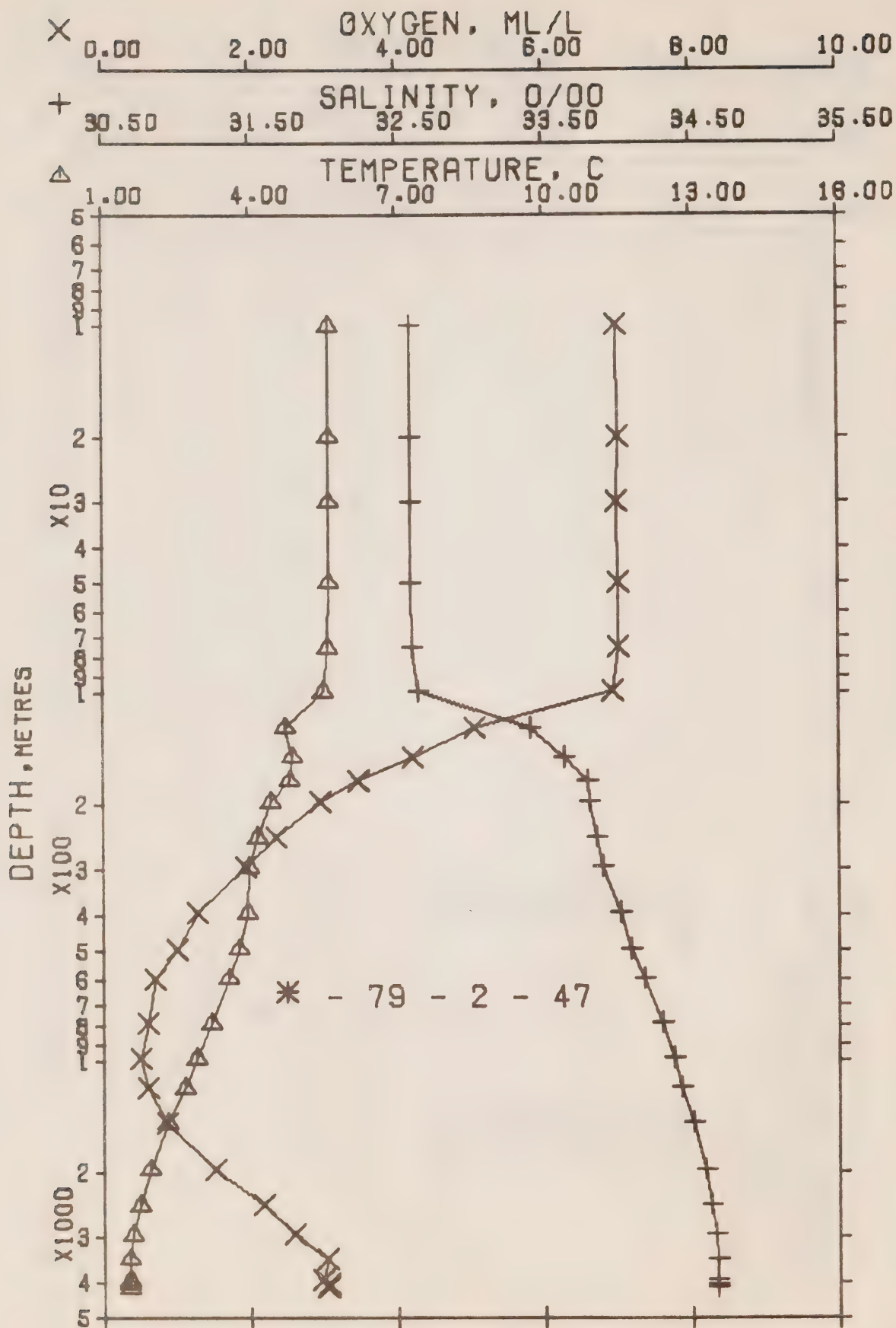


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 2- 44
 POSITION 50- .0 N, 145-
 HYDROGRAPHIC CAST DATA

DATE 2/ 3/79 GMT 17.9
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
5.57	0
5.56	25
5.55	40
5.47	88
4.66	186
4.08	284
3.74	485
3.34	732
2.91	980
2.31	1475



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 47
POSITION 50- .0 N, 145-
HYDROGRAPHIC CAST DATA

DATE 5/ 3/79 GMT 18.1
.0 W

STATION P

OBSERVED DATA

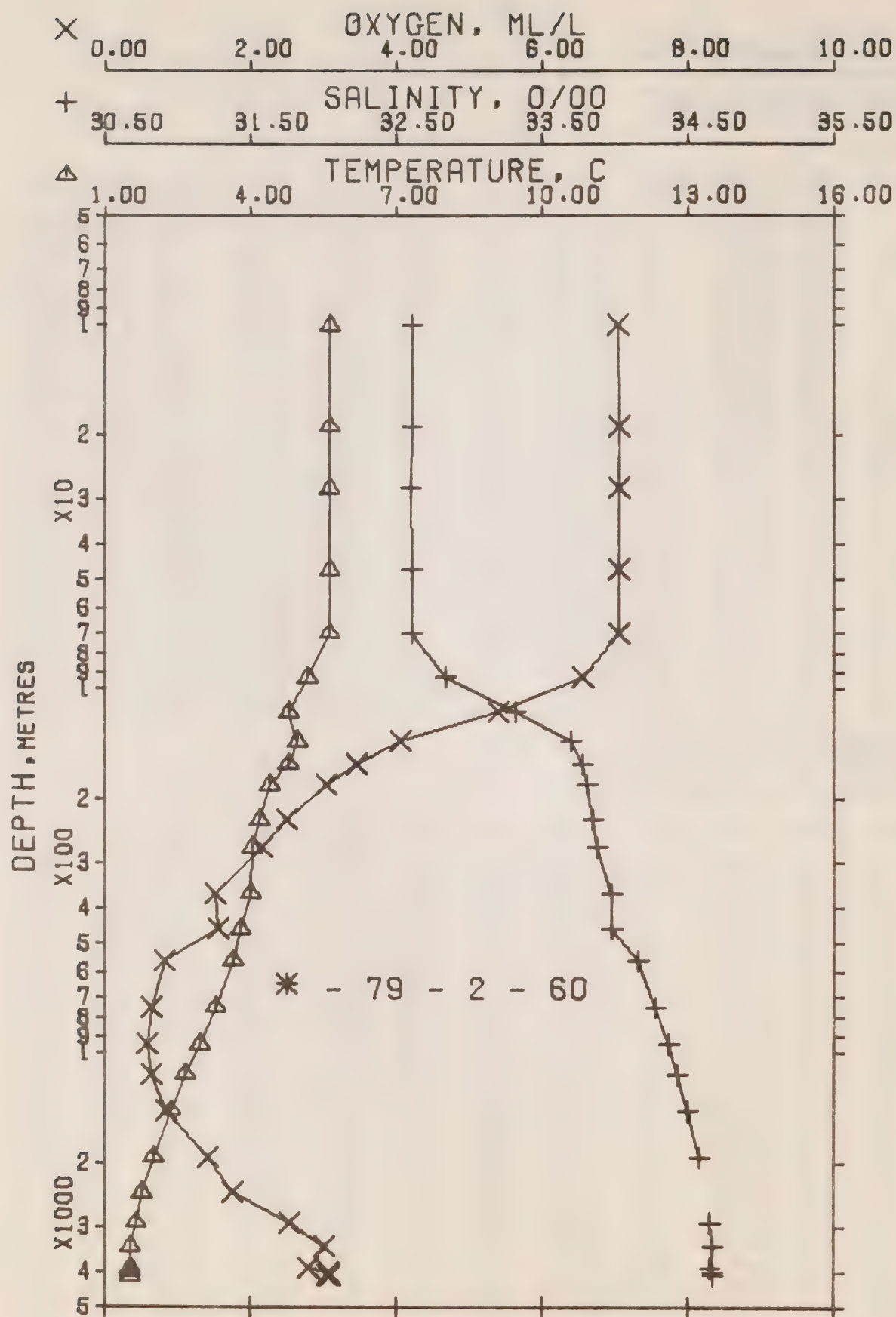
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.66	32.599	0	25.723	227.9	5.66	227.9	.00	.00	7.01	1471.
10	5.63	32.604	10	25.730	227.3	5.63	227.2	.23	.01	6.99	1471.
20	5.63	32.601	20	25.728	227.6	5.63	227.4	.46	.05	7.02	1471.
30	5.63	32.601	30	25.728	227.7	5.63	227.4	.69	.11	7.00	1471.
50	5.61	32.601	50	25.730	227.7	5.61	227.2	1.15	.29	7.03	1471.
75	5.58	32.608	75	25.739	227.1	5.57	226.3	1.72	.66	7.02	1471.
100	5.51	32.651	99	25.781	223.3	5.50	222.3	2.28	1.17	6.93	1472.
125	4.72	33.413	124	26.473	157.9	4.71	156.6	2.76	1.71	5.05	1470.
150	4.86	33.645	149	26.641	142.2	4.85	140.6	3.13	2.23	4.22	1471.
174	4.82	33.795	173	26.764	130.8	4.81	128.9	3.46	2.77	3.47	1472.
199	4.42	33.811	198	26.820	125.6	4.41	123.6	3.78	3.39	2.96	1470.
249	4.16	33.861	247	26.887	119.5	4.14	117.2	4.39	4.77	2.36	1470.
299	3.97	33.904	297	26.941	114.8	3.95	112.1	4.98	6.42	1.94	1470.
398	3.93	34.020	395	27.037	106.5	3.90	102.9	6.07	10.30	1.28	1472.
499	3.75	34.089	495	27.110	100.2	3.71	95.9	7.12	15.08	1.00	1473.
599	3.56	34.181	594	27.202	92.1	3.52	87.2	8.08	20.46	.70	1474.
793	3.20	34.301	786	27.332	80.8	3.15	74.8	9.75	32.29	.59	1476.
992	2.90	34.377	982	27.420	73.2	2.83	66.3	11.27	46.13	.51	1478.
1191	2.64	34.433	1179	27.487	67.3	2.56	59.9	12.67	61.70	.60	1480.
1491	2.29	34.507	1475	27.576	59.5	2.19	51.3	14.56	87.55	.85	1483.
1994	1.92	34.586	1970	27.668	51.5	1.78	42.3	17.35	136.94	1.51	1490.
2500	1.71	34.629	2467	27.719	47.5	1.53	37.3	19.85	194.09	2.18	1498.
3006	1.57	34.655	2962	27.750	45.3	1.35	34.1	22.18	259.71	2.61	1506.
3508	1.52	34.671	3453	27.767	44.8	1.25	32.2	24.44	334.51	3.03	1514.
4005	1.52	34.666+	3938	27.763	46.4	1.20	32.3	26.69	420.96	2.99+	1523.
4104	1.52	34.670	4034	27.766	46.4	1.18	31.9	27.15	439.86	3.05	1525.
4193	1.52	34.671	4121	27.767	46.5	1.17	31.8	27.57	457.42	3.04	1526.
4202	1.52	34.672	4130	27.767	46.5	1.17	31.7	27.61	459.26	3.05	1526.

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 47
POSITION 50- .0 N, 145-
INTERPOLATED TO STANDARD PRESSURE

DATE 5/ 3/79 GMT 18.1
.0 W

STATION P

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.66	32.599	0	25.723	227.9	5.66	227.9	.00	.00	7.01	1471.
10	5.63	32.604	10	25.730	227.3	5.63	227.2	.23	.01	6.99	1471.
20	5.63	32.601	20	25.728	227.6	5.63	227.4	.46	.05	7.02	1471.
30	5.63	32.601	30	25.728	227.7	5.63	227.4	.69	.11	7.00	1471.
50	5.61	32.601	50	25.730	227.7	5.61	227.2	1.15	.29	7.03	1471.
75	5.58	32.608	75	25.739	227.1	5.57	226.3	1.72	.66	7.02	1471.
100	5.51	32.651	99	25.781	223.3	5.50	222.3	2.28	1.17	6.93	1472.
125	4.72	33.413	124	26.473	157.9	4.71	156.6	2.76	1.71	5.05	1470.
150	4.86	33.645	149	26.641	142.2	4.85	140.6	3.13	2.23	4.22	1471.
175	4.81	33.796	174	26.766	130.7	4.79	128.7	3.47	2.79	3.45	1471.
200	4.42	33.812	199	26.821	125.5	4.40	123.5	3.79	3.40	2.95	1470.
225	4.28	33.838	223	26.857	122.3	4.26	120.1	4.10	4.07	2.63	1470.
250	4.16	33.862	248	26.889	119.4	4.14	117.0	4.40	4.80	2.35	1470.
300	3.97	33.905	298	26.942	114.7	3.95	112.0	4.98	6.44	1.93	1470.
400	3.93	34.021	397	27.039	106.3	3.90	102.7	6.09	10.38	1.27	1472.
500	3.75	34.090	496	27.111	100.2	3.71	95.8	7.12	15.13	1.00	1473.
600	3.56	34.182	595	27.202	92.1	3.52	87.1	8.08	20.51	.70	1474.
700	3.36	34.248	694	27.274	85.8	3.31	80.3	8.97	26.39	.64	1475.
800	3.19	34.304	793	27.335	80.5	3.13	74.4	9.80	32.73	.59	1476.
900	3.03	34.344	892	27.381	76.4	2.97	70.0	10.59	39.52	.55	1477.
1000	2.89	34.380	990	27.423	72.9	2.82	66.0	11.33	46.75	.51	1478.
1200	2.63	34.435	1188	27.490	67.1	2.55	59.6	12.73	62.43	.61	1480.
1500	2.28	34.509	1484	27.578	59.3	2.18	51.2	14.61	88.33	.86	1484.
2000	1.92	34.587	1976	27.669	51.4	1.78	42.3	17.38	137.54	1.52	1490.
2500	1.71	34.629	2467	27.719	47.5	1.53	37.3	19.85	194.09	2.18	1498.
3000	1.57	34.655	2956	27.750	45.3	1.35	34.1	22.16	258.92	2.60	1506.
3500	1.52	34.671	3445	27.766	44.8	1.25	32.3	24.40	333.25	3.03	1514.
4000	1.52	34.666	3933	27.763	46.4	1.20	32.3	26.67	420.00	2.99	1523.
4100	1.52	34.670	4031	27.766	46.4	1.19	31.9	27.13	439.17	3.05	1524.
4200	1.52	34.672	4128	27.767	46.5	1.17	31.7	27.60	458.84	3.05	1526.



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 60
POSITION 50- .0 N, 145-
HYDROGRAPHIC CAST DATA

DATE 14/ 3/79 GMT 18.5
.0 W

STATION P

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.65	32.606	0	25.730	227.3	5.65	227.3	.00	.00	7.07	1470.
10	5.62	32.605	10	25.732	227.1	5.62	227.0	.23	.01	7.04	1471.
19	5.62	32.605	19	25.732	227.2	5.62	227.0	.43	.04	7.06	1471.
28	5.62	32.604	28	25.731	227.4	5.62	227.1	.64	.09	7.06	1471.
47	5.62	32.607	47	25.734	227.4	5.62	226.8	1.07	.26	7.06	1471.
70	5.63	32.606	70	25.732	227.8	5.62	227.0	1.61	.58	7.06	1472.
94	5.16	32.836	93	25.968	205.5	5.15	204.6	2.11	1.00	6.56	1470.
117	4.78	33.315	116	26.389	165.8	4.77	164.6	2.54	1.46	5.40	1470.
140	4.95	33.695	139	26.670	139.4	4.94	137.8	2.89	1.92	4.07	1471.
162	4.77	33.777	161	26.755	131.5	4.76	129.8	3.19	2.38	3.46	1471.
185	4.40	33.812	184	26.823	125.1	4.39	123.3	3.49	2.91	3.04	1470.
231	4.18	33.846	229	26.873	120.7	4.16	118.5	4.05	4.09	2.50	1470.
275	4.04	33.884	273	26.918	116.8	4.02	114.3	4.57	5.44	2.16	1470.
367	3.99	33.978	364	26.998	110.0	3.96	106.6	5.61	8.83	1.52	1471.
462	3.80	33.979	458	27.018	108.7	3.77	104.7	6.65	13.23	1.55	1472.
563	3.63	34.156	558	27.175	94.5	3.59	89.7	7.67	18.56	.82	1473.
756	3.27	34.278	749	27.307	83.0	3.22	77.1	9.38	29.99	.64	1475.
955	2.94	34.366	946	27.407	74.2	2.87	67.5	10.94	43.59	.57	1477.
1155	2.66	34.428	1143	27.481	67.7	2.58	60.4	12.35	58.76	.63	1479.
1455	2.35	34.497	1439	27.563	60.7	2.25	52.6	14.27	84.28	.84	1483.
1956	1.98	34.577	1932	27.657	52.7	1.85	43.5	17.11	133.48	1.41	1490.
2458	1.74	34.619*	2425	27.709	48.5	1.57	38.3	19.64	190.34	1.77	1497.
2961	1.62	34.653	2918	27.745	46.0	1.40	34.6	22.01	255.74	2.55	1505.
3465	1.52	34.670	3411	27.766	44.8	1.25	32.3	24.28	329.89	3.02	1514.
3969	1.51	34.647+	3903	27.748	47.5	1.19	33.7	26.65	419.90	2.80+	1522.
4071	1.51	34.668	4002	27.765	46.3	1.18	32.0	27.12	439.39	3.07	1524.
4162	1.51	34.670	4091	27.766	46.4	1.17	31.8	27.55	457.15	3.07	1525.
4172	1.51	34.670	4101	27.766	46.4	1.17	31.8	27.60	459.17	3.09	1526.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 60

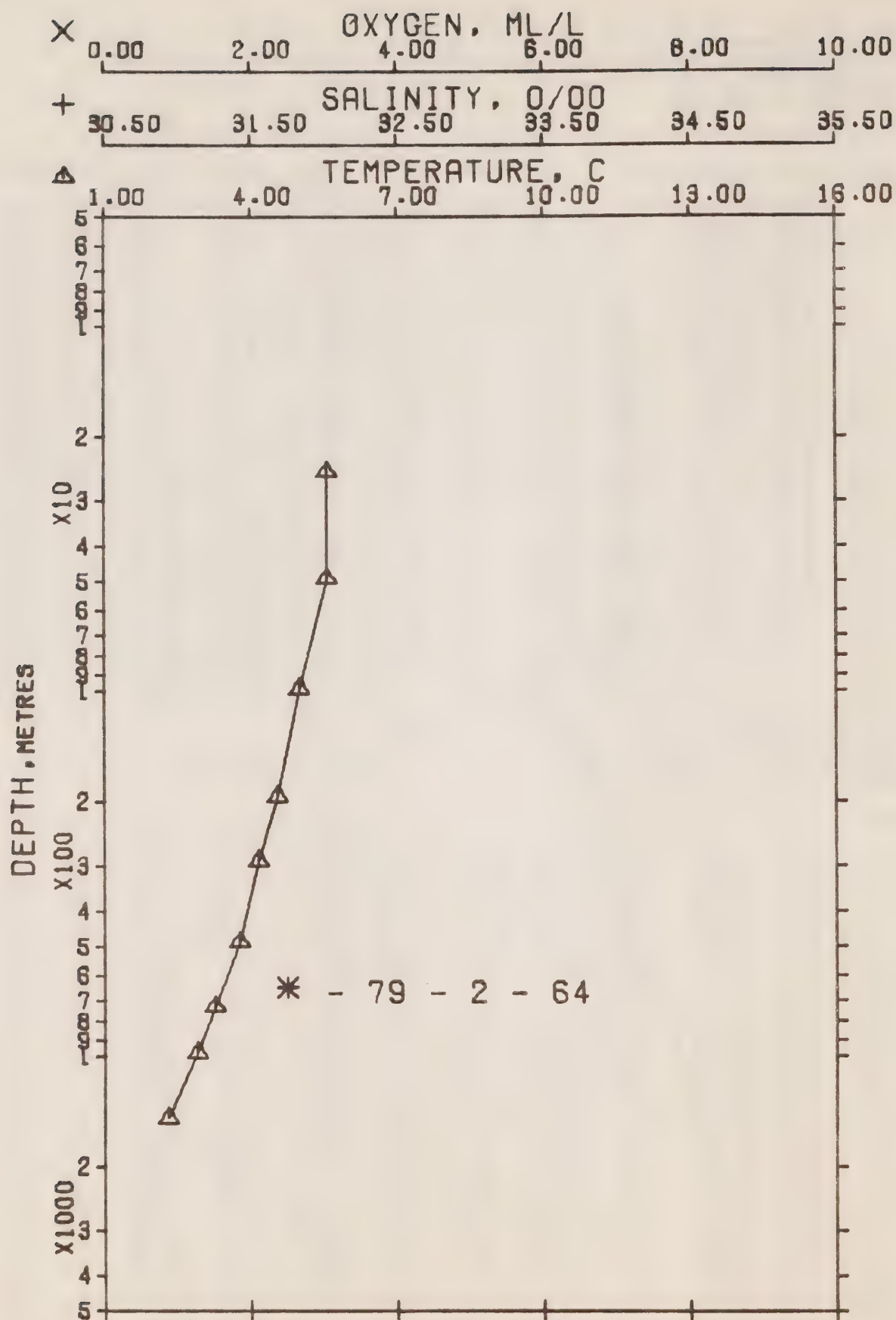
DATE 14/ 3/79

GMT 18.5

POSITION 50- .0 N, 145- .0 W
INTERPOLATED TO STANDARD PRESSURE

STATION P

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.65	32.606	0	25.730	227.3	5.65	227.3	.00	.00	7.07	1470.
10	5.62	32.605	10	25.732	227.1	5.62	227.0	.23	.01	7.04	1471.
20	5.62	32.605	20	25.732	227.2	5.62	227.0	.45	.05	7.06	1471.
30	5.62	32.604	30	25.732	227.4	5.62	227.0	.68	.10	7.06	1471.
50	5.62	32.607	50	25.734	227.4	5.62	226.8	1.14	.29	7.06	1471.
75	5.53	32.657	75	25.784	222.9	5.52	222.0	1.71	.65	6.95	1471.
100	5.05	32.979	99	26.093	193.7	5.04	192.6	2.24	1.13	6.21	1470.
125	4.84	33.458	124	26.495	155.8	4.83	154.5	2.67	1.62	4.90	1470.
150	4.87	33.734	149	26.710	135.7	4.85	134.0	3.03	2.12	3.78	1471.
175	4.56	33.797	174	26.794	127.9	4.55	126.0	3.36	2.67	3.22	1470.
200	4.32	33.824	199	26.841	123.6	4.31	121.6	3.67	3.26	2.85	1470.
225	4.21	33.842	223	26.868	121.2	4.19	119.1	3.98	3.93	2.56	1470.
250	4.12	33.863	248	26.894	118.9	4.10	116.6	4.28	4.65	2.34	1470.
300	4.02	33.912	298	26.942	114.7	4.00	112.0	4.86	6.29	1.96	1470.
400	3.92	33.978	397	27.005	109.5	3.89	105.9	5.97	10.25	1.53	1472.
500	3.73	34.050	496	27.081	102.9	3.70	98.7	7.06	15.22	1.26	1473.
600	3.55	34.182	595	27.204	91.9	3.51	87.0	8.02	20.61	.78	1474.
700	3.36	34.246	694	27.273	85.9	3.32	80.4	8.91	26.49	.69	1475.
800	3.19	34.299	793	27.331	80.8	3.13	74.8	9.74	32.86	.63	1476.
900	3.02	34.344	892	27.382	76.4	2.96	70.0	10.53	39.66	.59	1477.
1000	2.87	34.381	990	27.425	72.6	2.80	65.8	11.27	46.87	.59	1478.
1200	2.61	34.439	1188	27.495	66.5	2.53	59.1	12.66	62.41	.67	1480.
1500	2.31	34.505	1484	27.573	59.9	2.21	51.6	14.55	88.38	.90	1484.
2000	1.96	34.581	1976	27.662	52.3	1.82	43.0	17.35	138.17	1.45	1491.
2500	1.73	34.622	2467	27.712	48.3	1.55	38.0	19.85	195.52	1.84	1498.
3000	1.61	34.654	2956	27.747	45.9	1.39	34.4	22.19	261.23	2.59	1506.
3500	1.52	34.668	3445	27.764	45.0	1.25	32.4	24.43	335.48	3.01	1514.
4000	1.51	34.653	3933	27.753	47.1	1.19	33.2	26.80	425.84	2.88	1523.
4100	1.51	34.669	4031	27.765	46.3	1.18	31.9	27.26	445.04	3.07	1524.

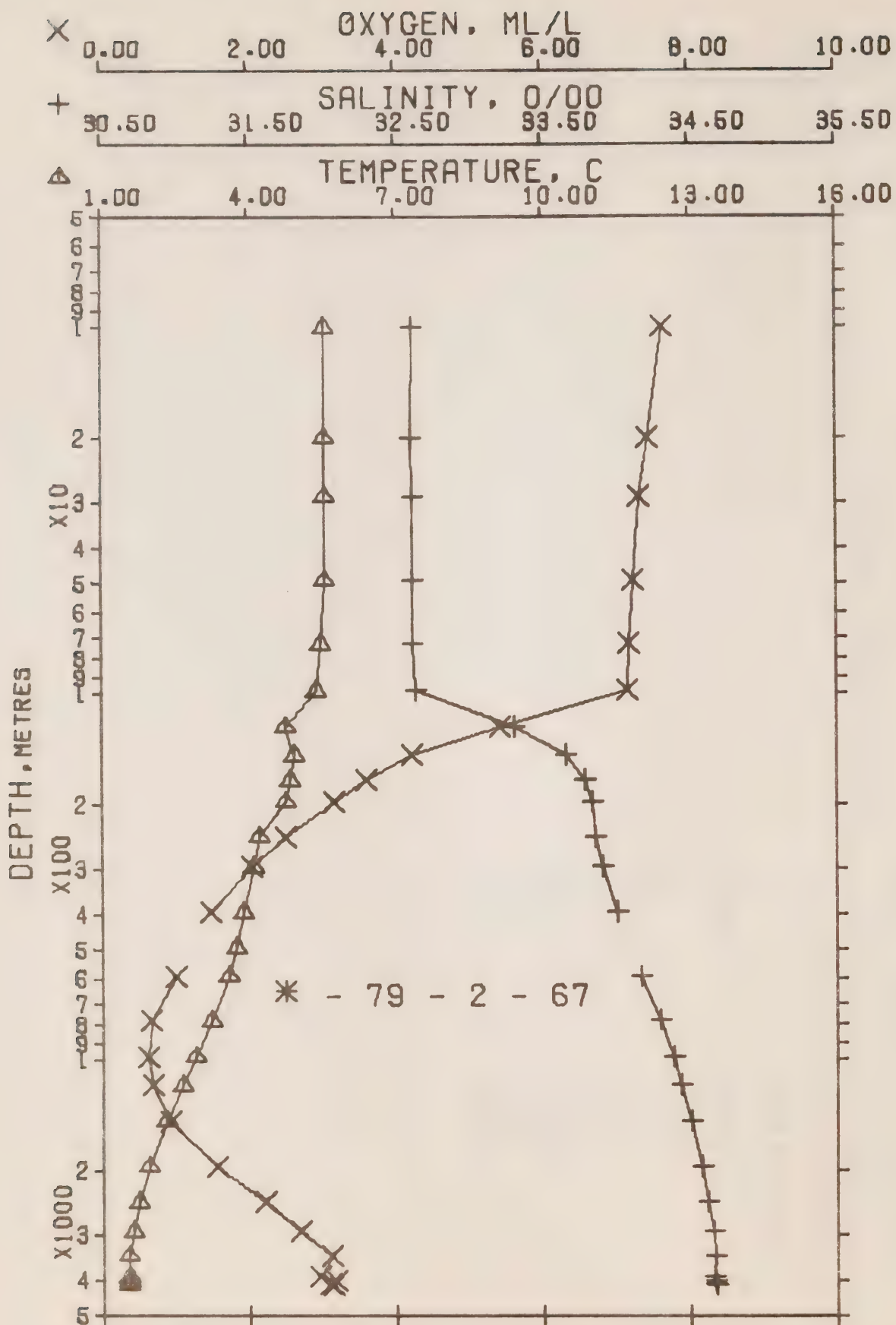


OFFSHORE OCEANOGRAPHY GROUP
 REFERENCE NO. 79- 2- 64
 POSITION 50- .0 N. 145-
 HYDROGRAPHIC CAST DATA

DATE 18/ 3/79 GMT 17.8
 .0 W STATION P

OBSERVED DATA

TEMP	DEPTH
5.62	0
5.56	25
5.57	49
4.98	98
4.55	194
4.14	291
3.75	485
3.25	727
2.89	971
2.30	1470



OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 79- 2- 67
POSITION 50- .0 N, 145-
HYDROGRAPHIC CAST DATA

DATE 20/ 3/79 GMT 18.3
.0 W

STATION P

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.59	32.615	0	25.744	225.9	5.59	225.9	.00	.00	7.68	1470.
10	5.56	32.616	10	25.748	225.6	5.56	225.5	.23	.01	7.65	1470.
20	5.56	32.615	20	25.747	225.8	5.56	225.6	.45	.05	7.44	1470.
29	5.56	32.616	29	25.748	225.8	5.56	225.5	.66	.10	7.31	1471.
49	5.55	32.617	49	25.750	225.8	5.55	225.3	1.11	.28	7.24	1471.
73	5.48	32.623	73	25.763	224.8	5.47	224.0	1.66	.62	7.18	1471.
99	5.39	32.644	98	25.790	222.5	5.38	221.5	2.24	1.13	7.17	1471.
124	4.75	33.314	123	26.391	165.6	4.74	164.3	2.73	1.68	5.42	1470.
148	4.93	33.665	147	26.649	141.5	4.92	139.9	3.10	2.19	4.23	1471.
173	4.85	33.789	172	26.756	131.6	4.84	129.7	3.44	2.75	3.59	1472.
198	4.76	33.839	197	26.805	127.1	4.74	125.0	3.76	3.37	3.16	1472.
248	4.20	33.861	246	26.883	119.9	4.18	117.6	4.37	4.76	2.50	1470.
298	4.09	33.913	296	26.936	115.3	4.07	112.5	4.97	6.41	2.04	1471.
397	3.88	34.014	394	27.037	106.4	3.85	102.9	6.06	10.29	1.47	1472.
496	3.74	34.102*	492	27.121	99.2	3.70	94.9	7.08	14.91	1.22*	1473.
594	3.59	34.173	589	27.193	93.0	3.55	88.0	8.02	20.14	1.01	1474.
788	3.21	34.298	781	27.328	81.0	3.16	75.1	9.70	31.97	.67	1475.
986	2.88	34.388	976	27.430	72.1	2.81	65.3	11.21	45.56	.62	1477.
1183	2.61	34.441	1171	27.496	66.4	2.53	59.0	12.57	60.64	.69	1480.
1480	2.30	34.506	1464	27.574	59.6	2.20	51.5	14.44	85.93	.92	1483.
1977	1.94	34.584	1953	27.665	51.8	1.80	42.7	17.20	134.50	1.55	1490.
2476	1.72	34.621	2443	27.712	48.1	1.54	38.0	19.69	190.93	2.21	1498.
2976	1.59	34.656	2933	27.749	45.4	1.37	34.2	22.02	255.57	2.71	1506.
3477	1.52	34.673	3423	27.768	44.6	1.25	32.1	24.25	329.12	3.11	1514.
3979	1.51	34.660+	3913	27.758	46.6	1.19	32.7	26.57	417.13	2.95+	1522.
4080	1.51	34.670	4011	27.766	46.2	1.18	31.8	27.03	436.27	3.17	1524.
4170	1.51	34.670	4099	27.766	46.4	1.17	31.8	27.45	453.92	3.10	1526.
4181	1.51	34.675	4109	27.770	46.1	1.17	31.4	27.50	455.94	3.15	1526.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 67

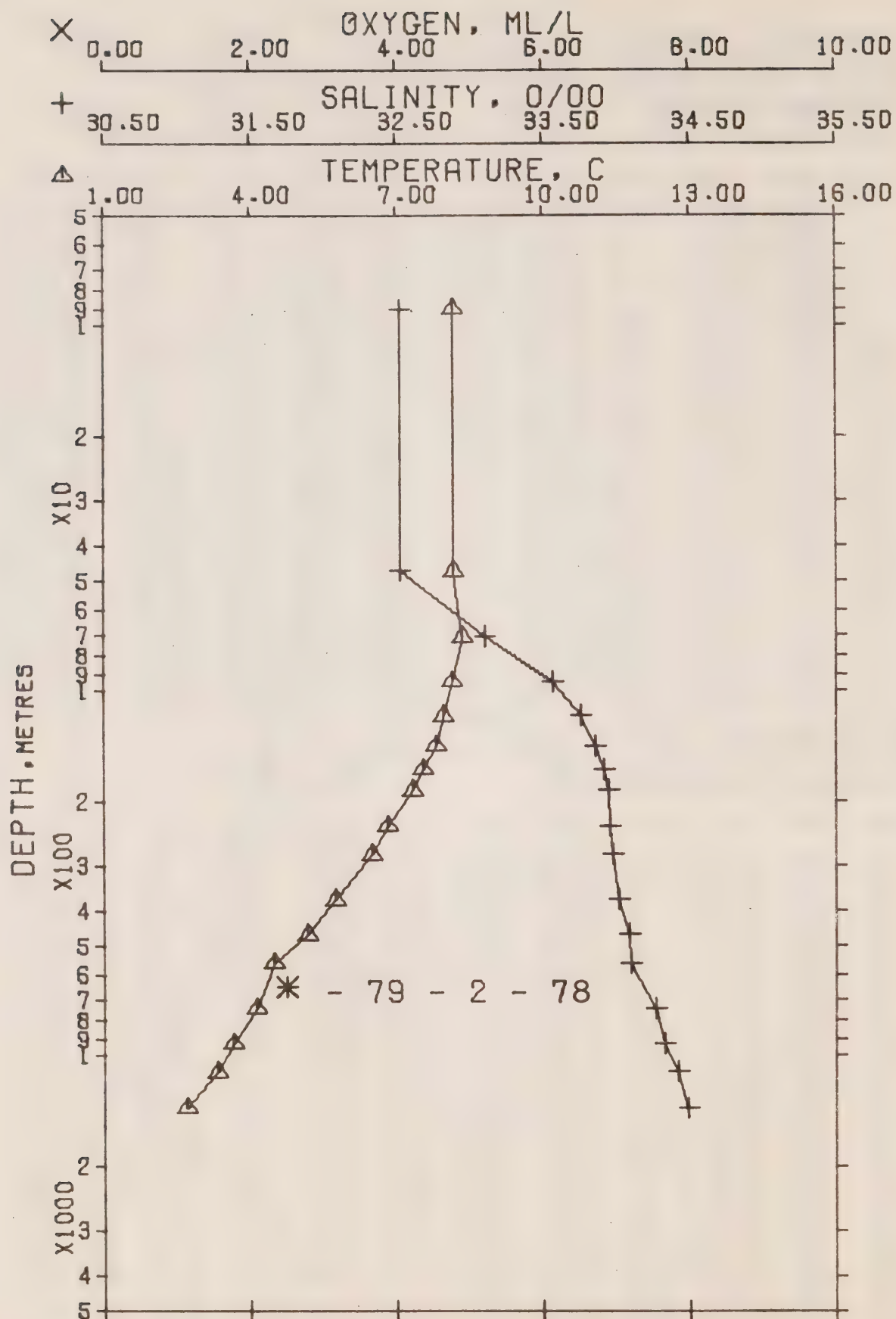
DATE 20/ 3/79 GMT 18.3

POSITION 50- .0 N, 145- .0 W

STATION P

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.59	32.615	0	25.744	225.9	5.59	225.9	.00	.00	7.68	1470.
10	5.56	32.616	10	25.748	225.6	5.56	225.5	.23	.01	7.65	1470.
20	5.56	32.615	20	25.747	225.8	5.56	225.6	.45	.05	7.44	1470.
30	5.56	32.616	30	25.748	225.8	5.56	225.5	.68	.10	7.31	1471.
50	5.55	32.617	50	25.750	225.8	5.54	225.2	1.13	.29	7.23	1471.
75	5.47	32.624	75	25.765	224.7	5.47	223.9	1.69	.65	7.18	1471.
100	5.35	32.684	99	25.826	219.1	5.34	218.0	2.27	1.16	7.06	1471.
125	4.76	33.333	124	26.405	164.3	4.75	163.0	2.74	1.71	5.36	1470.
150	4.92	33.676	149	26.658	140.7	4.91	139.0	3.12	2.24	4.17	1471.
175	4.84	33.793	174	26.760	131.3	4.83	129.3	3.46	2.80	3.56	1472.
200	4.74	33.840	199	26.808	126.9	4.72	124.7	3.78	3.41	3.14	1472.
225	4.44	33.851	223	26.850	123.0	4.43	120.7	4.10	4.09	2.78	1471.
250	4.19	33.863	248	26.886	119.7	4.18	117.3	4.40	4.82	2.47	1470.
300	4.09	33.915	298	26.938	115.1	4.06	112.3	4.99	6.47	2.03	1471.
400	3.88	34.017	397	27.040	106.2	3.85	102.6	6.09	10.41	1.47	1472.
500	3.73	34.105	496	27.124	98.9	3.70	94.6	7.12	15.10	1.21	1473.
600	3.58	34.177	595	27.197	92.6	3.53	87.6	8.07	20.47	1.00	1474.
700	3.37	34.246	694	27.271	86.0	3.32	80.5	8.97	26.39	.81	1475.
800	3.19	34.304	793	27.335	80.4	3.13	74.4	9.80	32.74	.66	1476.
900	3.01	34.351	892	27.389	75.7	2.95	69.3	10.58	39.50	.64	1477.
1000	2.86	34.392	990	27.435	71.6	2.79	64.8	11.31	46.62	.62	1478.
1200	2.59	34.445	1188	27.501	65.9	2.51	58.5	12.69	62.00	.70	1480.
1500	2.28	34.510	1484	27.578	59.3	2.18	51.1	14.56	87.72	.95	1484.
2000	1.93	34.586	1976	27.668	51.6	1.79	42.4	17.32	136.91	1.59	1490.
2500	1.71	34.623	2467	27.714	48.0	1.54	37.8	19.81	193.86	2.24	1498.
3000	1.59	34.657	2956	27.750	45.4	1.37	34.1	22.13	258.88	2.73	1506.
3500	1.52	34.672	3445	27.768	44.7	1.25	32.1	24.36	332.74	3.11	1514.
4000	1.51	34.662	3933	27.760	46.5	1.19	32.5	26.66	421.03	3.00	1523.
4100	1.51	34.670	4031	27.766	46.2	1.18	31.8	27.13	440.13	3.15	1524.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 78

DATE 27/ 3/79

GMT .0

POSITION 48-46.0 N, 127-40.0 W

STATION 4

HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	8.20	32.527	0	25.329	265.4	8.20	265.4	.00	.00		1480.
9	8.17	32.525	9	25.331	265.3	8.17	265.1	.24	.01		1481.
47	8.16	32.533	47	25.339	265.1	8.16	264.3	1.26	.31		1481.
71	8.36	33.112	71	25.762	225.4	8.35	224.1	1.85	.66		1483.
95	8.14	33.565	94	26.149	189.0	8.13	187.3	2.33	1.06		1483.
118	7.96	33.764	117	26.332	172.0	7.95	169.9	2.75	1.52		1483.
142	7.81	33.855	141	26.425	163.6	7.80	161.0	3.15	2.05		1483.
165	7.54	33.917	164	26.513	155.5	7.52	152.7	3.52	2.63		1482.
188	7.33	33.953	187	26.571	150.3	7.31	147.1	3.88	3.27		1482.
236	6.81	33.958	234	26.646	143.6	6.79	139.9	4.57	4.77		1481.
282	6.48	33.984	280	26.711	138.0	6.45	133.8	5.22	6.49		1480.
376	5.74	34.021	373	26.834	127.0	5.71	122.0	6.47	10.65		1479.
469	5.18	34.091	465	26.957	116.0	5.14	110.3	7.59	15.49		1478.
562	4.48	34.097	557	27.040	108.3	4.44	102.4	8.63	20.95		1477.
747	4.12	34.272	740	27.217	92.8	4.06	85.5	10.48	33.25		1479.
932	3.64	34.334	923	27.316	84.2	3.57	76.1	12.12	47.21		1480.
1118	3.32	34.423	1107	27.417	75.3	3.24	66.4	13.60	62.69		1482.
1401	2.67	34.494	1386	27.533	64.3	2.57	55.4	15.57	87.87		1484.

OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 78

DATE 27/ 3/79

GMT .0

POSITION 48-46.0 N, 127-40.0 W

STATION 4

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	8.20	32.527	0	25.329	265.4	8.20	265.4	.00	.00		1480.
10	8.17	32.525	10	25.332	265.3	8.17	265.1	.27	.01		1481.
20	8.17	32.529	20	25.335	265.1	8.16	264.8	.53	.05		1481.
30	8.16	32.531	30	25.337	265.1	8.16	264.6	.80	.12		1481.
50	8.19	32.611	50	25.396	259.7	8.18	258.9	1.33	.34		1481.
75	8.32	33.191	75	25.829	219.0	8.31	217.7	1.93	.72		1483.
100	8.09	33.616	99	26.196	184.7	8.08	182.9	2.43	1.16		1483.
125	7.91	33.793	124	26.362	169.3	7.90	167.1	2.87	1.67		1483.
150	7.71	33.878	149	26.457	160.6	7.70	158.0	3.28	2.25		1483.
175	7.45	33.933	174	26.538	153.2	7.43	150.2	3.67	2.89		1482.
200	7.19	33.954	199	26.591	148.5	7.17	145.2	4.05	3.61		1482.
225	6.92	33.957	223	26.631	145.0	6.90	141.4	4.42	4.41		1481.
250	6.70	33.967	248	26.668	141.8	6.68	137.9	4.78	5.28		1481.
300	6.32	33.992	298	26.738	135.6	6.29	131.2	5.47	7.22		1480.
400	5.58	34.041	397	26.869	123.9	5.55	118.7	6.77	11.85		1479.
500	4.93	34.093	496	26.987	113.2	4.89	107.4	7.95	17.26		1478.
600	4.40	34.138	595	27.082	104.6	4.35	98.5	9.04	23.37		1477.
700	4.20	34.232	694	27.178	96.3	4.15	89.3	10.04	30.01		1478.
800	3.97	34.291	793	27.248	90.1	3.91	82.5	10.97	37.10		1479.
900	3.71	34.324	892	27.300	85.5	3.65	77.6	11.85	44.71		1479.
1000	3.52	34.369	991	27.355	80.7	3.44	72.3	12.68	52.76		1480.
1200	3.12	34.445	1188	27.454	71.8	3.03	62.9	14.20	69.82		1482.

Results of STD Observations

(P-79-2)

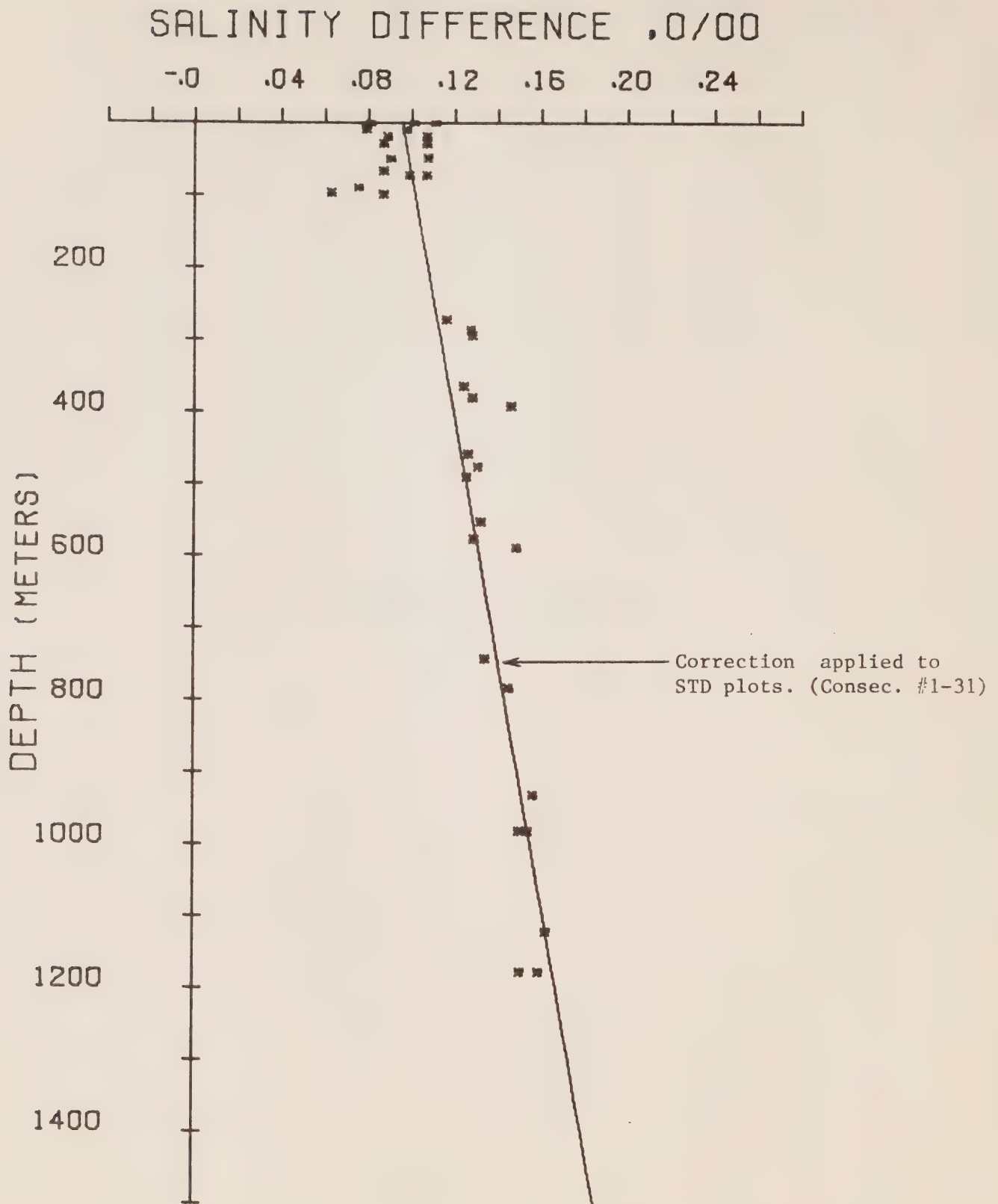


Figure 7(a) Salinity difference between hydro data and STD
P-79-2

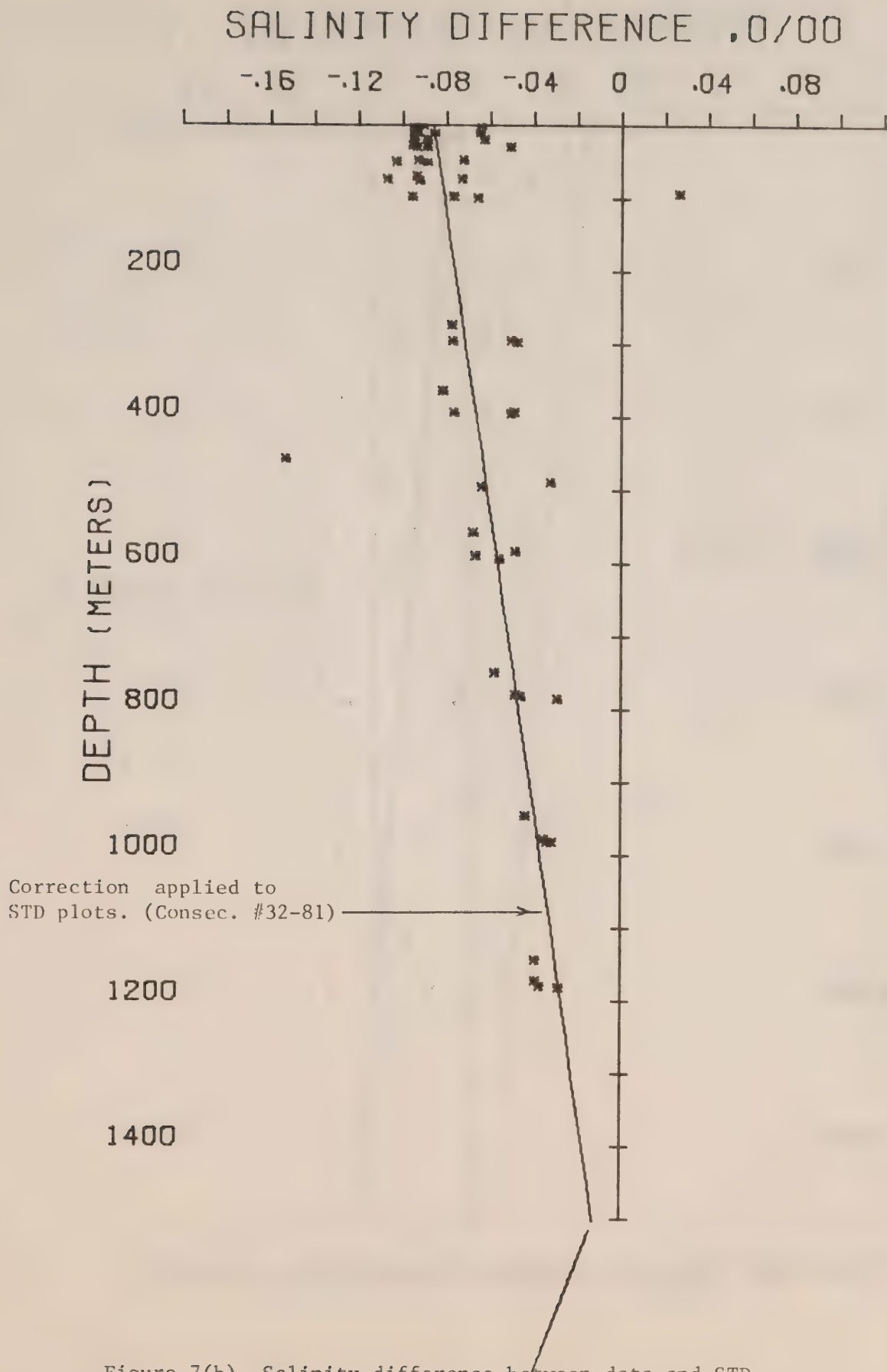


Figure 7(b) Salinity difference between data and STD
P-79-2

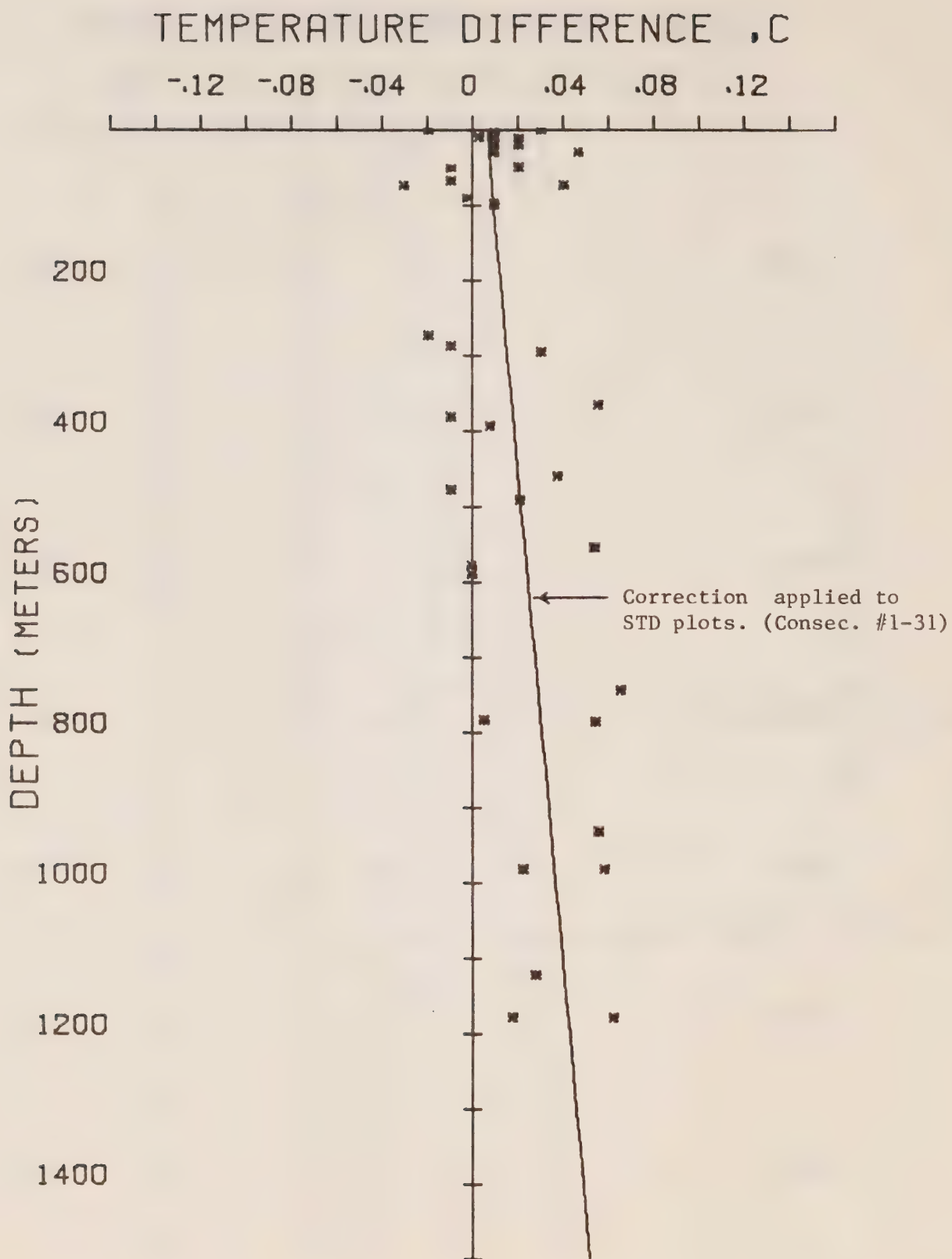


Figure 8(a) Temperature difference between hydro data and STD
P-79-2

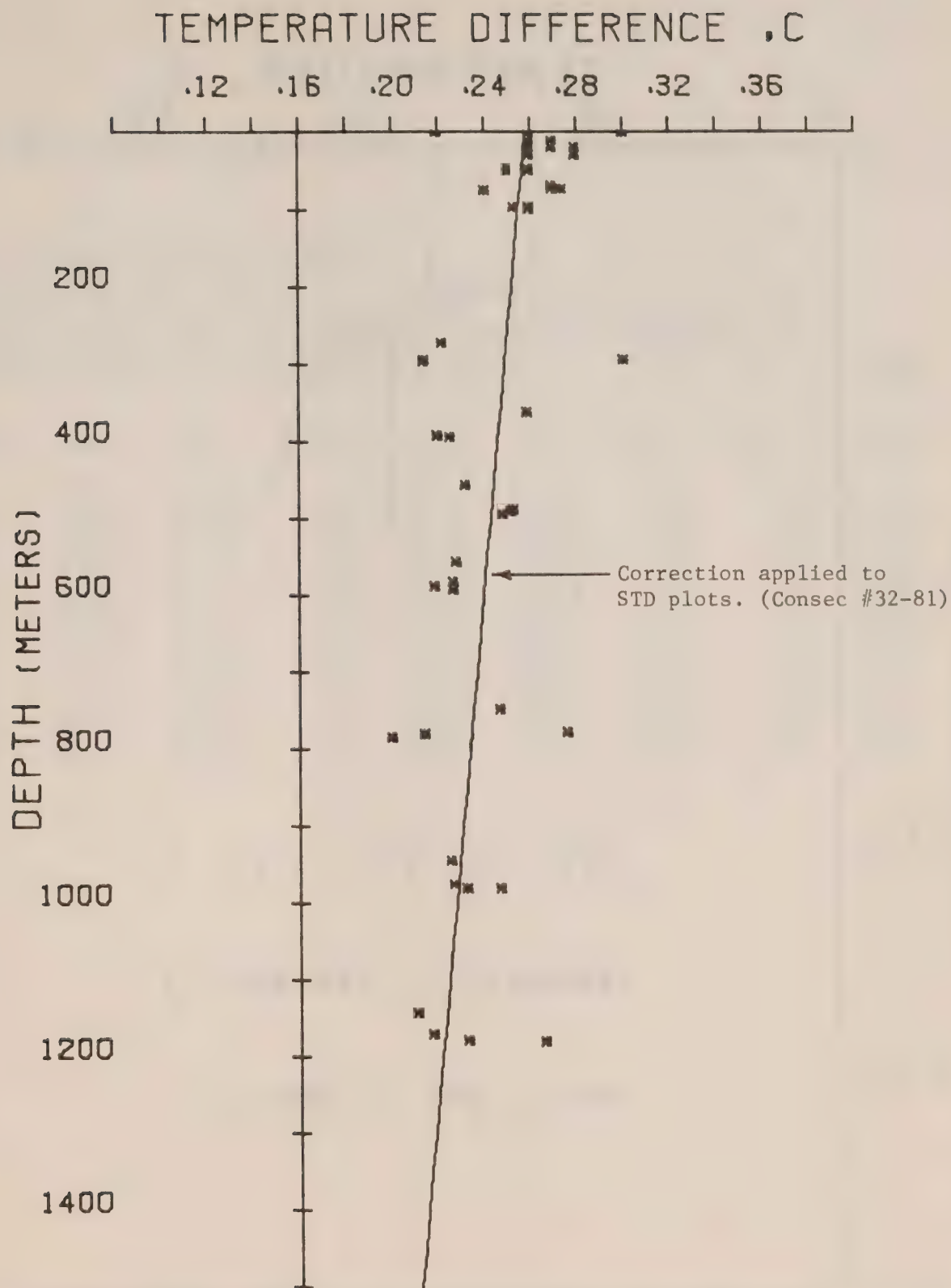
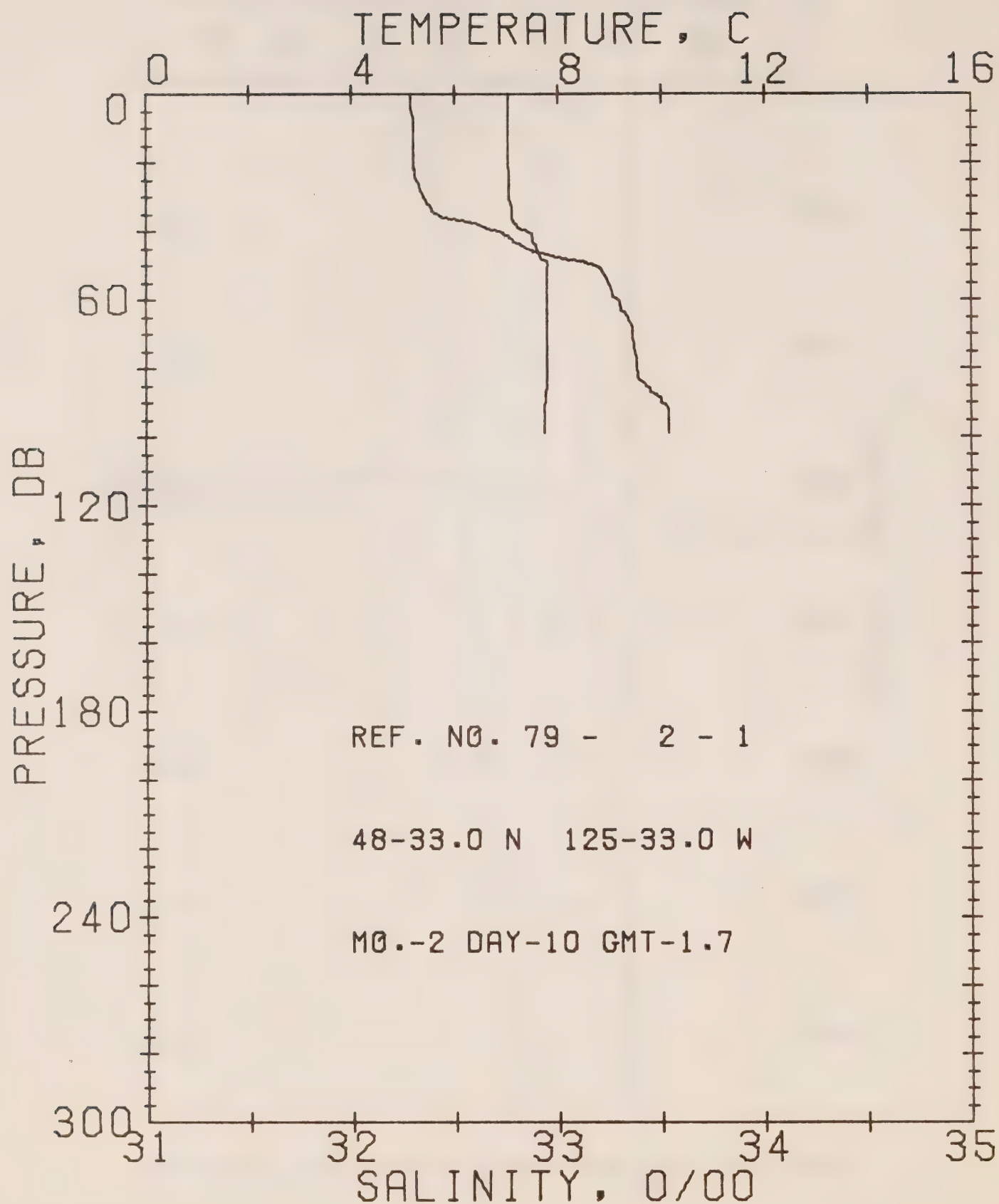


Figure 8(b) Temperature difference between hydro data and STD
P-79-2



OFFSHORE OCEANOGRAPHY GROUP

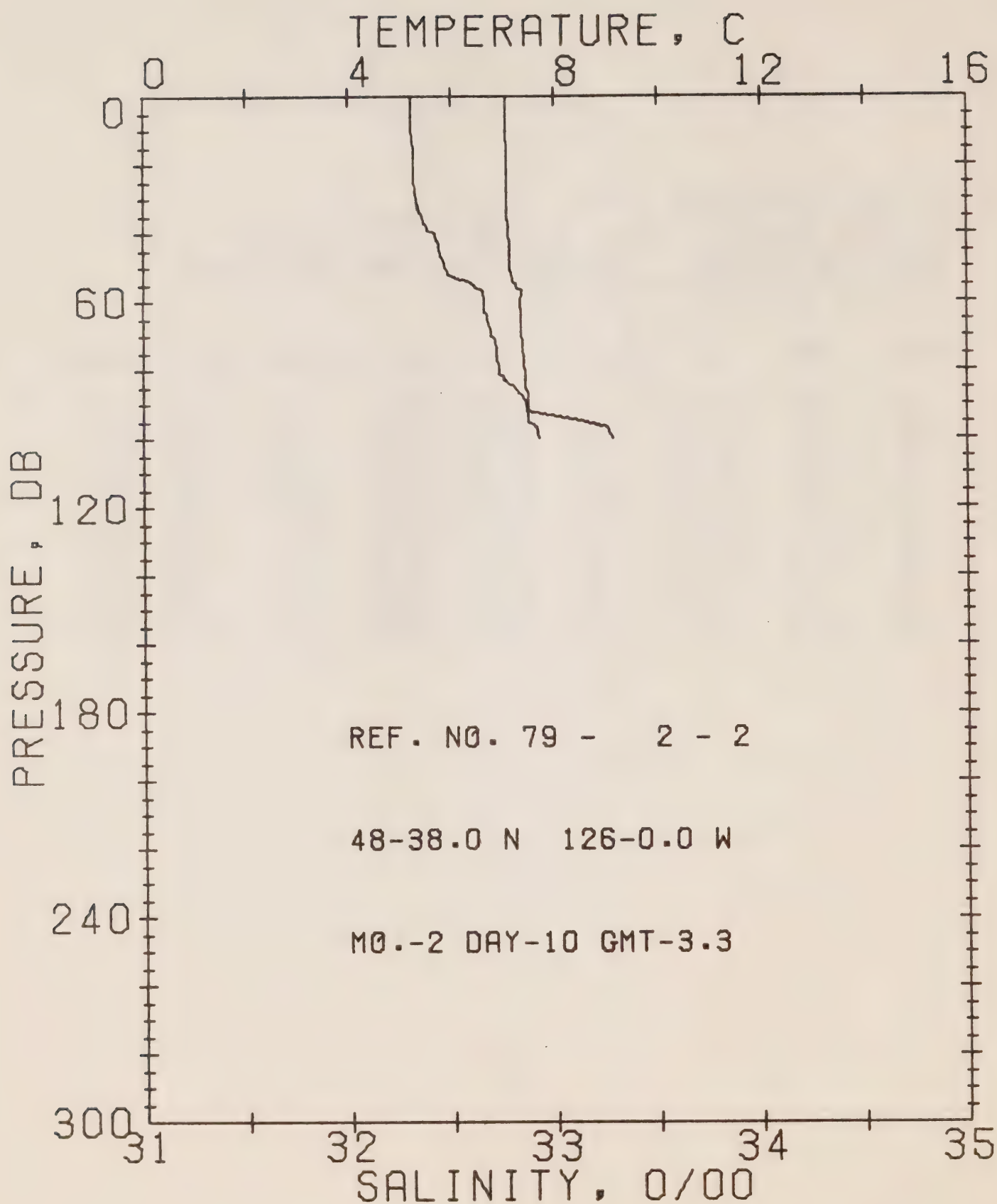
REFERENCE NO. 79- 2- 1 DATE 10/ 2/79

POSITION 48-33.0N, 125-33.0W GMT 1.7 STATION 1

RESULTS OF STP CAST 03 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.05	32.29	0	25.30	267.7	.00	.00	1476.
10	7.05	32.30	10	25.31	267.1	.27	.01	1476.
20	7.05	32.30	20	25.31	267.2	.53	.05	1476.
30	7.07	32.35	30	25.35	263.9	.80	.12	1476.
40	7.42	32.71	40	25.58	241.7	1.06	.21	1478.
50	7.82	33.17	50	25.89	213.1	1.29	.32	1481.
60	7.78	33.29	60	25.99	203.8	1.50	.44	1481.
70	7.78	33.36	70	26.04	198.7	1.70	.57	1481.
80	7.78	33.38	80	26.06	197.4	1.89	.72	1481.
90	7.76	33.50	89	26.15	188.4	2.09	.89	1482.
100	7.73	33.53	99	26.18	185.9	2.27	1.07	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 2

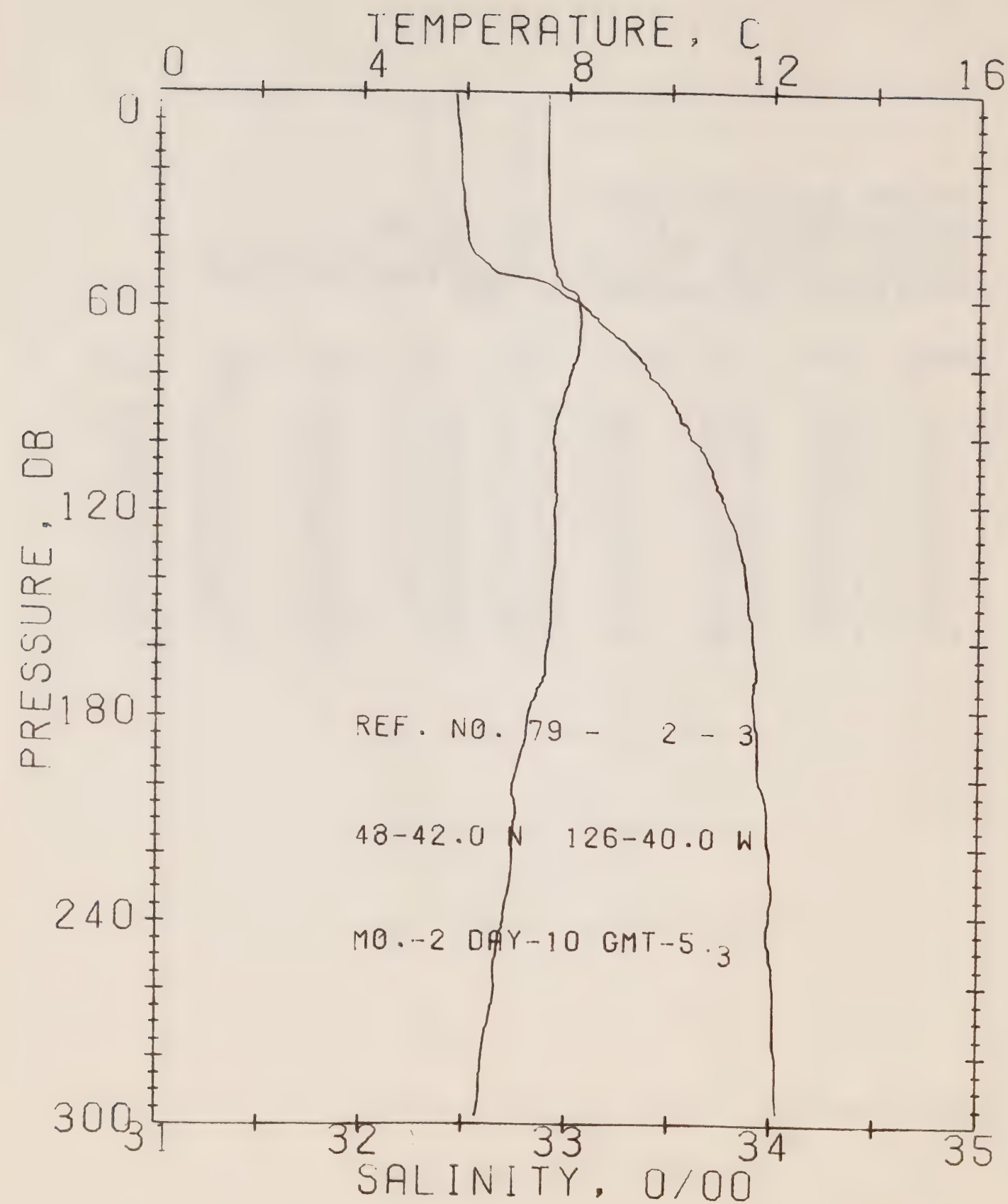
DATE 10/ 2/79

POSITION 48-38.0N, 126- .0W GMT 3.3 STATION 2

RESULTS OF STP CAST 64 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.07	32.31	0	25.32	266.5	.00	.00	1476.
10	7.07	32.31	10	25.32	266.6	.27	.01	1476.
20	7.08	32.32	20	25.32	266.1	.53	.05	1476.
30	7.09	32.33	30	25.33	265.3	.80	.12	1476.
40	7.12	32.42	40	25.40	259.4	1.06	.22	1477.
50	7.15	32.47	50	25.43	256.2	1.32	.33	1477.
60	7.34	32.66	60	25.56	244.7	1.57	.47	1478.
70	7.37	32.69	70	25.57	243.0	1.81	.64	1479.
80	7.43	32.73	80	25.60	241.0	2.05	.82	1479.
90	7.48	32.86	89	25.69	232.1	2.29	1.03	1480.
100	7.70	33.28	99	25.99	204.0	2.51	1.23	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 3

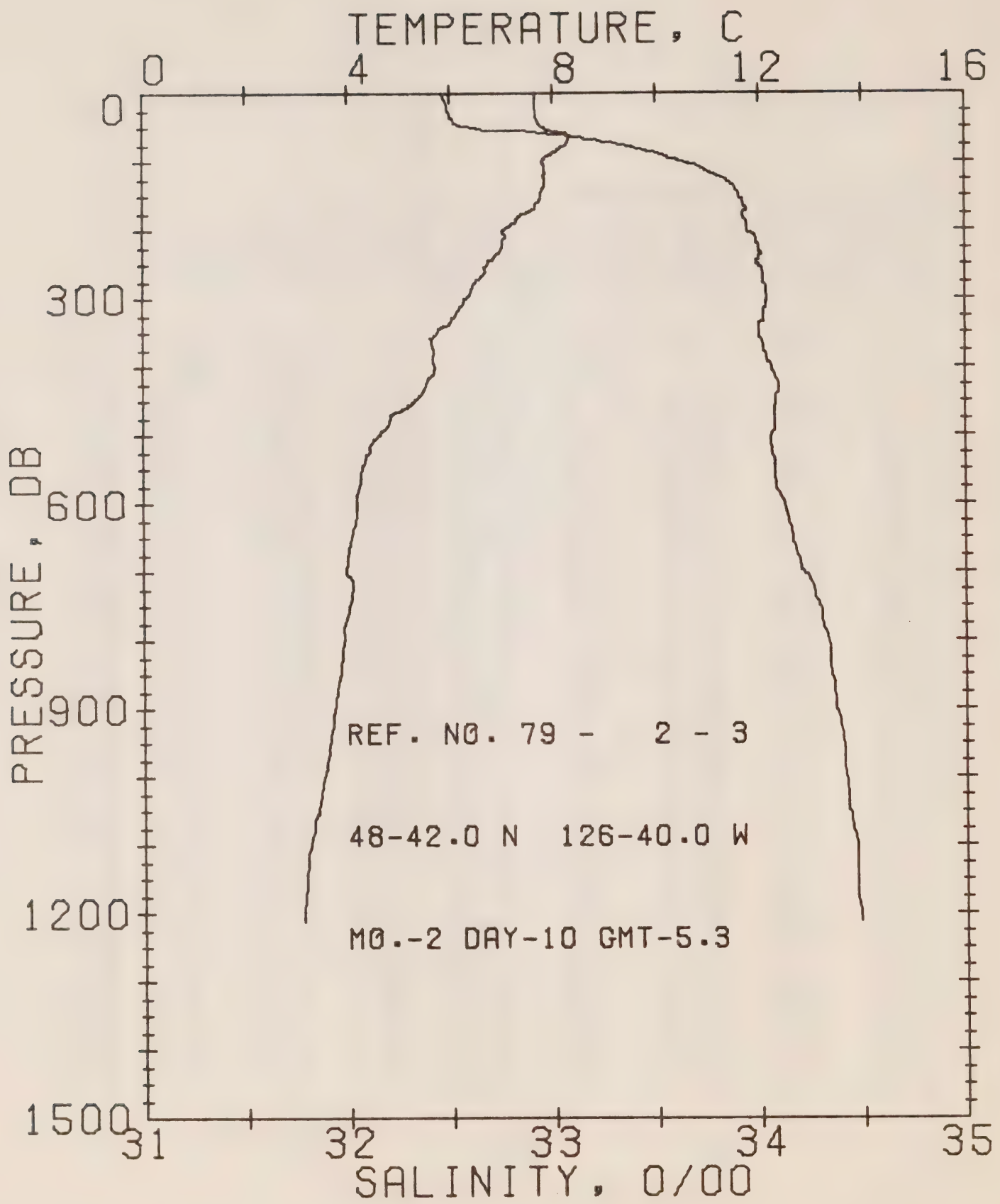
DATE 10/ 2/79

POSITION 48-42.0N, 126-40.0W GMT 5.3 STATION 3

RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.65	32.46	0	25.36	262.9	.00	.00	1478.
10	7.65	32.48	10	25.37	261.8	.26	.01	1478.
20	7.65	32.49	20	25.38	260.9	.52	.05	1479.
30	7.68	32.50	30	25.38	260.7	.78	.12	1479.
40	7.71	32.51	40	25.39	260.3	1.05	.21	1479.
50	7.81	32.59	50	25.44	255.8	1.30	.33	1480.
60	8.29	33.00	60	25.68	232.5	1.55	.47	1482.
70	8.30	33.22	70	25.86	216.5	1.77	.62	1483.
80	8.14	33.39	80	26.01	201.7	1.98	.78	1483.
90	7.94	33.52	89	26.14	189.4	2.18	.94	1482.
100	7.79	33.61	99	26.24	180.8	2.36	1.12	1482.
110	7.84	33.72	109	26.31	173.5	2.54	1.31	1482.
120	7.81	33.79	119	26.37	168.0	2.71	1.51	1483.
130	7.85	33.85	129	26.42	164.3	2.87	1.72	1483.
140	7.80	33.89	139	26.45	161.0	3.04	1.95	1483.
150	7.76	33.90	149	26.47	159.6	3.20	2.18	1483.
160	7.69	33.92	159	26.49	157.3	3.35	2.43	1483.
170	7.61	33.94	169	26.52	154.9	3.51	2.70	1483.
180	7.32	33.92	179	26.55	152.3	3.66	2.97	1482.
190	7.23	33.94	189	26.58	149.9	3.82	3.26	1482.
200	7.03	33.94	199	26.60	147.4	3.96	3.55	1481.
210	7.07	33.98	209	26.63	144.7	4.11	3.86	1481.
220	7.02	33.99	218	26.64	143.8	4.25	4.17	1481.
230	6.98	34.00	228	26.66	142.6	4.40	4.50	1481.
240	6.86	34.00	238	26.67	141.2	4.54	4.84	1481.
250	6.72	33.99	248	26.69	139.9	4.68	5.19	1481.
260	6.69	34.01	258	26.70	138.5	4.82	5.55	1481.
270	6.57	34.02	268	26.73	136.4	4.95	5.92	1480.
280	6.44	34.02	278	26.75	134.6	5.09	6.30	1480.
290	6.40	34.03	288	26.76	133.7	5.22	6.69	1480.
300	6.30	34.04	298	26.78	131.7	5.36	7.09	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 3

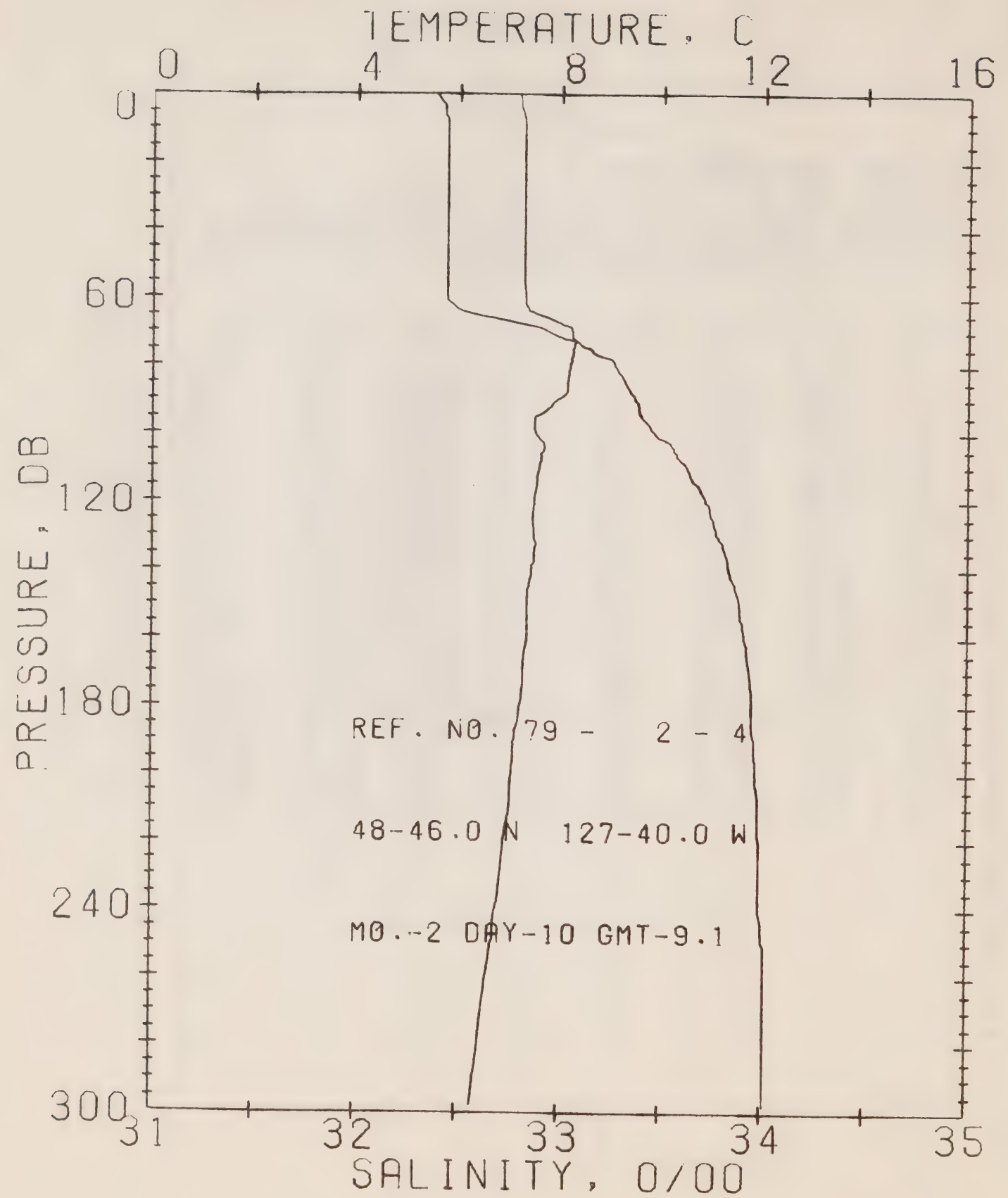
DATE 10/ 2/79

POSITION 48-42.0N, 126-40.0W GMT 5.3 STATION 3

RESULTS OF STP CAST 337 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

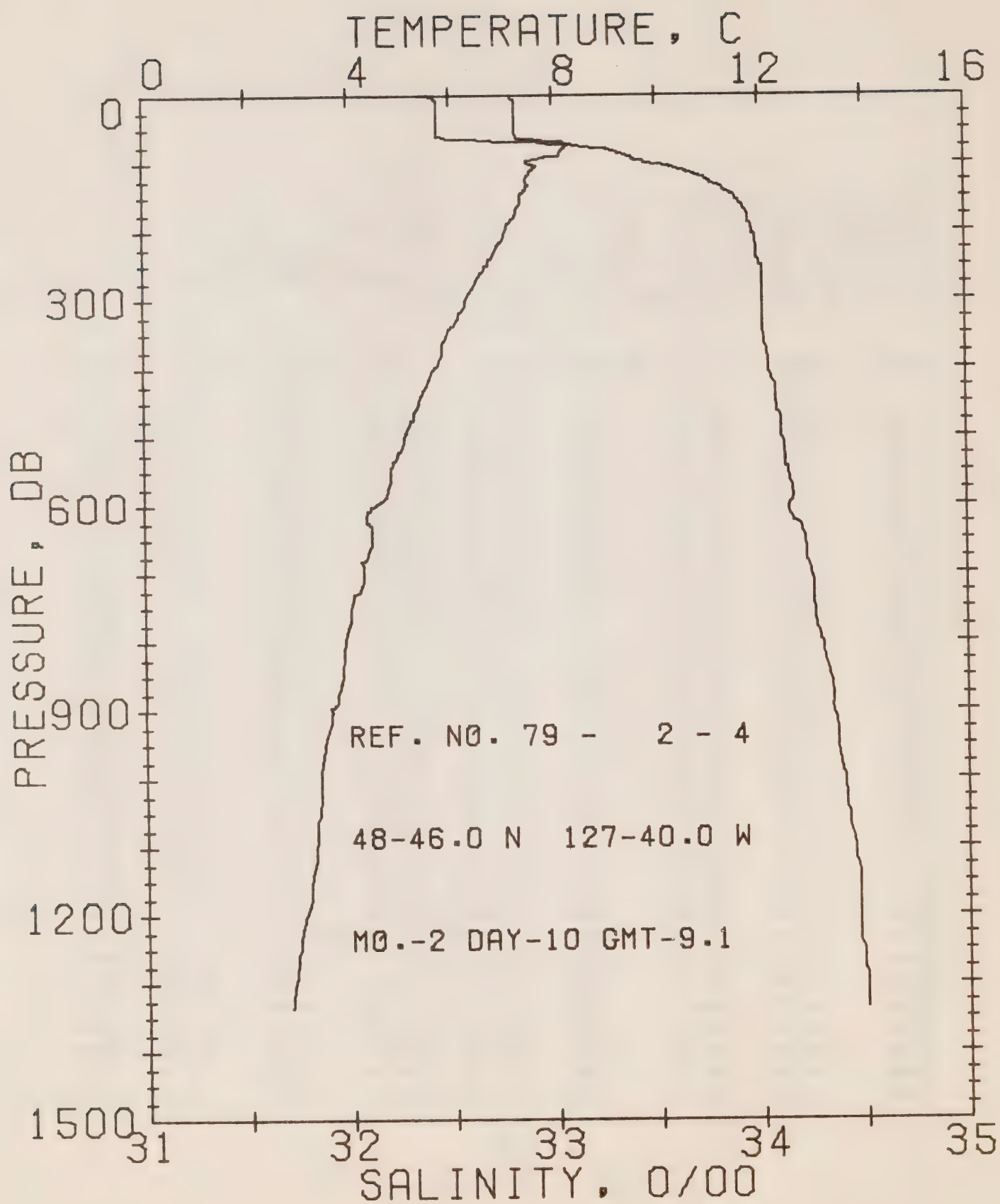
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.65	32.46	0	25.36	262.9	.00	.00	1478.
10	7.65	32.48	10	25.37	261.8	.26	.01	1478.
20	7.65	32.49	20	25.38	260.9	.52	.05	1479.
30	7.68	32.50	30	25.38	260.7	.78	.12	1479.
50	7.81	32.59	50	25.44	255.8	1.30	.33	1480.
75	8.26	33.32	75	25.94	208.6	1.88	.69	1483.
100	7.79	33.61	99	26.24	180.8	2.36	1.12	1482.
125	7.84	33.83	124	26.40	165.9	2.79	1.62	1483.
150	7.76	33.90	149	26.47	159.6	3.20	2.18	1483.
175	7.46	33.93	174	26.53	153.6	3.59	2.83	1482.
200	7.03	33.94	199	26.60	147.4	3.96	3.55	1481.
225	7.00	34.00	223	26.65	142.9	4.33	4.33	1481.
250	6.72	33.99	248	26.69	139.9	4.68	5.19	1481.
300	6.30	34.04	298	26.78	131.7	5.36	7.09	1480.
400	5.70	34.06	397	26.87	123.9	6.64	11.66	1479.
500	4.60	34.06	496	27.00	111.7	7.81	17.03	1476.
600	4.16	34.12	595	27.09	103.4	8.89	23.07	1476.
800	3.91	34.33	793	27.29	86.2	10.79	36.57	1479.
1000	3.51	34.42	991	27.39	77.1	12.43	51.53	1480.
1200	3.10	34.48	1188	27.48	69.1	13.87	67.67	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 4 DATE 10/ 2/79
 POSITION 48-46.0N, 127-40.0W GMT 9.1 STATION 4
 RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.18	32.39	0	25.37	261.9	.00	.00	1476.
10	7.28	32.44	10	25.39	259.6	.26	.01	1477.
20	7.29	32.44	20	25.39	259.9	.52	.05	1477.
30	7.29	32.44	30	25.39	260.0	.78	.12	1477.
40	7.29	32.44	40	25.39	260.1	1.04	.21	1477.
50	7.29	32.44	50	25.39	260.3	1.30	.33	1478.
60	7.30	32.44	60	25.39	260.5	1.56	.48	1478.
70	8.24	32.94	70	25.65	236.4	1.81	.64	1482.
80	8.18	33.27	80	25.91	211.2	2.03	.81	1483.
90	7.96	33.37	89	26.02	200.8	2.24	.99	1482.
100	7.52	33.47	99	26.17	187.4	2.43	1.18	1481.
110	7.59	33.62	109	26.27	177.3	2.62	1.38	1481.
120	7.49	33.71	119	26.36	169.5	2.79	1.58	1481.
130	7.49	33.78	129	26.41	164.5	2.96	1.79	1481.
140	7.44	33.83	139	26.46	160.0	3.12	2.01	1482.
150	7.37	33.89	149	26.51	155.2	3.28	2.25	1481.
160	7.35	33.91	159	26.53	153.4	3.43	2.49	1482.
170	7.27	33.94	169	26.57	150.5	3.58	2.75	1481.
180	7.22	33.95	179	26.58	149.0	3.73	3.01	1481.
190	7.11	33.96	189	26.61	146.8	3.88	3.29	1481.
200	7.07	33.97	199	26.62	145.7	4.03	3.58	1481.
210	7.02	33.98	209	26.63	144.5	4.17	3.89	1481.
220	6.92	33.99	218	26.66	142.5	4.32	4.20	1481.
230	6.85	33.99	228	26.67	141.7	4.46	4.53	1481.
240	6.77	33.99	238	26.68	140.8	4.60	4.87	1481.
250	6.69	34.01	248	26.70	138.8	4.74	5.21	1481.
260	6.59	34.01	258	26.72	137.2	4.88	5.57	1480.
270	6.51	34.01	268	26.73	136.3	5.01	5.94	1480.
280	6.44	34.01	278	26.74	135.6	5.15	6.32	1480.
290	6.36	34.01	288	26.75	134.6	5.28	6.72	1480.
300	6.27	34.01	298	26.76	133.6	5.42	7.12	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 4

DATE 10/ 2/79

POSITION 48-46.0N, 127-40.0W

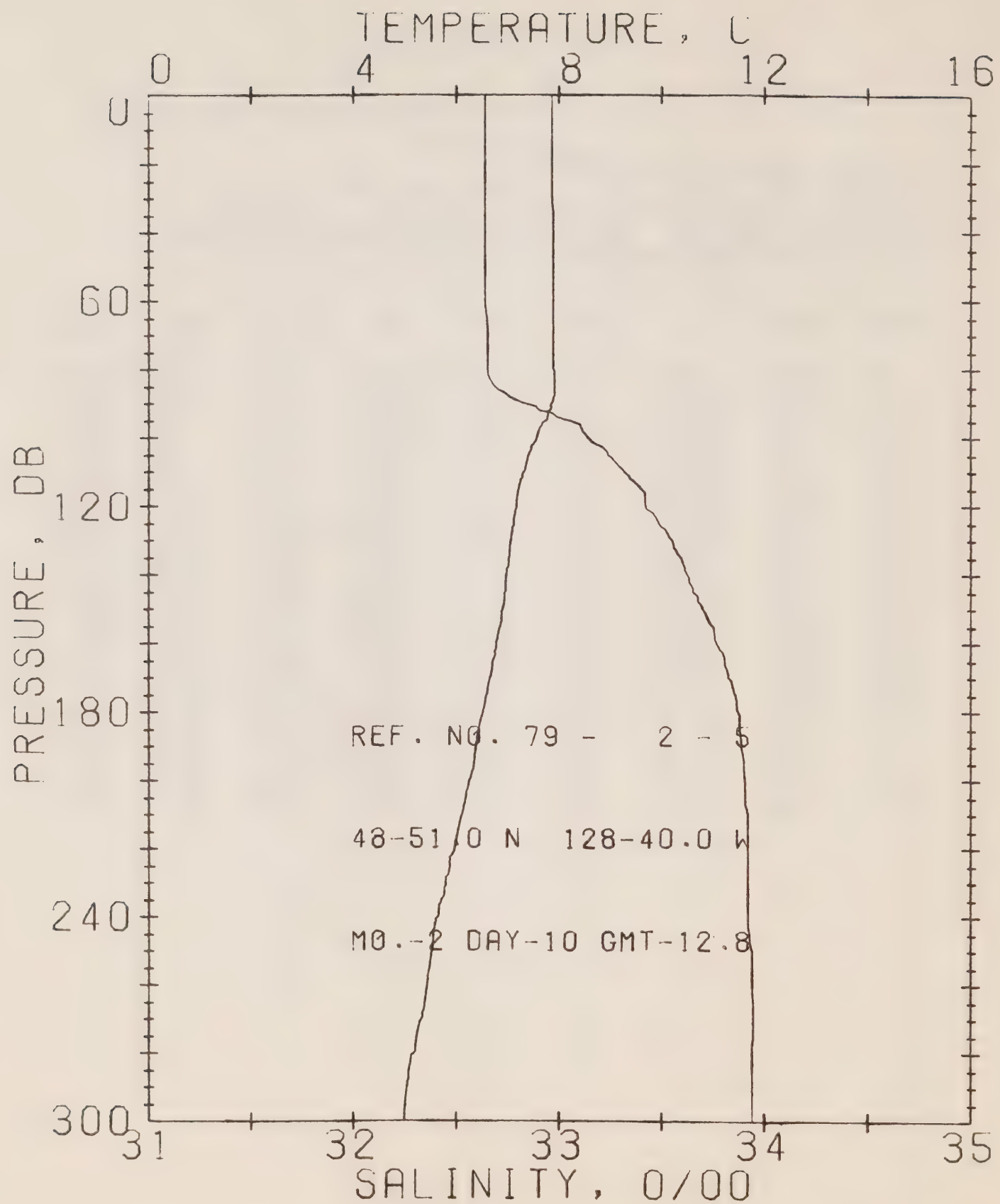
GMT 9.1

STATION 4

RESULTS OF STP CAST 335 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.18	32.39	0	25.37	261.9	.00	.00	1476.
10	7.28	32.44	10	25.39	259.6	.26	.01	1477.
20	7.29	32.44	20	25.39	259.9	.52	.05	1477.
30	7.29	32.44	30	25.39	260.0	.78	.12	1477.
50	7.29	32.44	50	25.39	260.3	1.30	.33	1478.
75	8.24	33.15	75	25.81	220.9	1.93	.73	1483.
100	7.52	33.47	99	26.17	187.4	2.43	1.18	1481.
125	7.47	33.75	124	26.39	166.3	2.87	1.68	1481.
150	7.37	33.89	149	26.51	155.2	3.28	2.25	1481.
175	7.26	33.94	174	26.57	149.8	3.66	2.88	1482.
200	7.07	33.97	199	26.62	145.7	4.03	3.58	1481.
225	6.88	33.99	223	26.66	142.0	4.39	4.36	1481.
250	6.69	34.01	248	26.70	138.8	4.74	5.21	1481.
300	6.27	34.01	298	26.76	133.6	5.42	7.12	1480.
400	5.66	34.04	397	26.86	124.9	6.71	11.73	1479.
500	5.08	34.10	496	26.98	114.5	7.90	17.18	1478.
600	4.50	34.14	595	27.07	105.7	9.00	23.33	1478.
800	3.90	34.29	793	27.26	89.0	10.93	37.07	1479.
1000	3.38	34.40	991	27.39	76.9	12.59	52.23	1480.
1200	3.08	34.47	1188	27.48	69.6	14.05	68.62	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 5

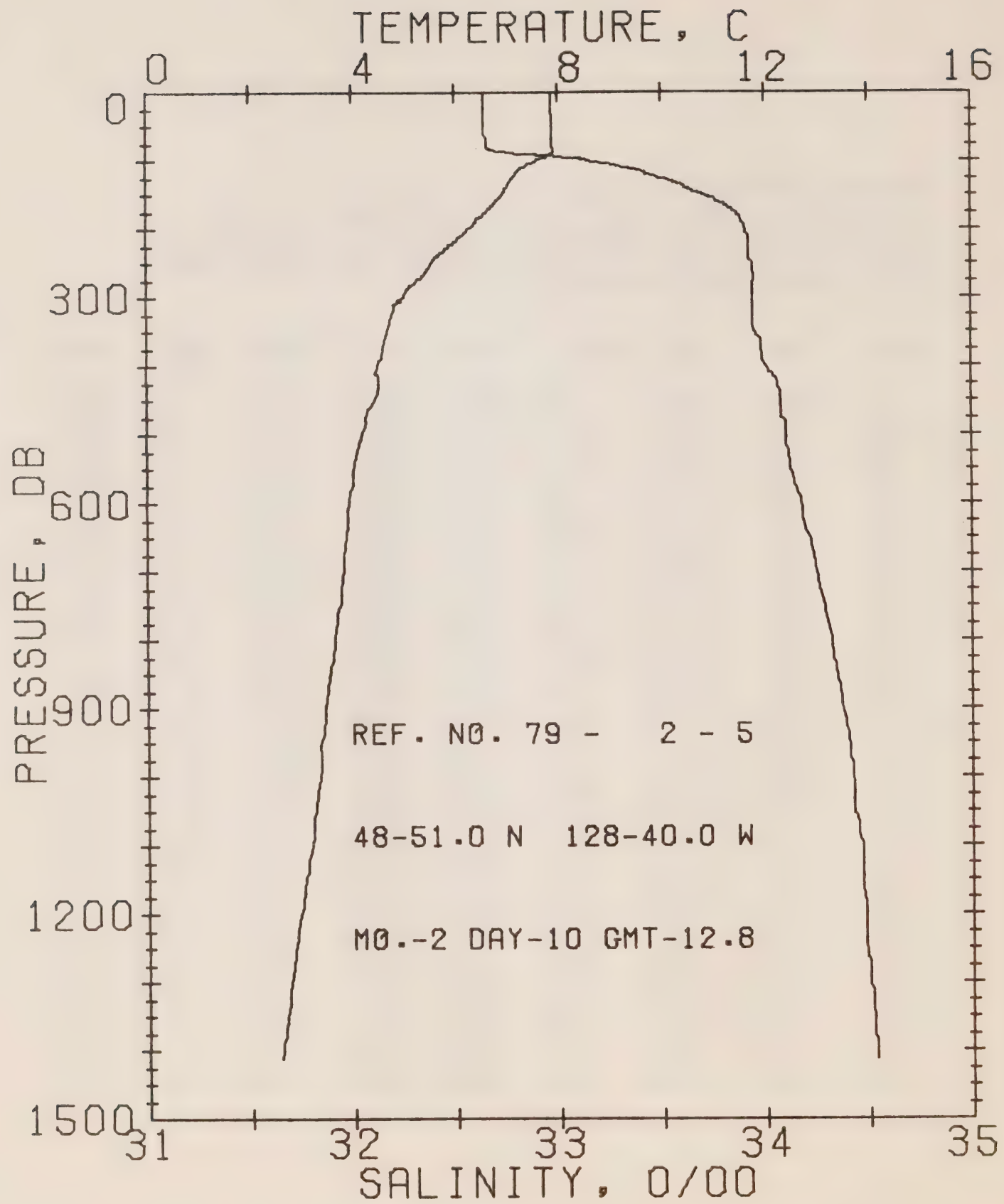
DATE 10/ 2/79

POSITION 48-51.0N, 128-40.0W GMT 12.8 STATION 5

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.88	32.64	0	25.46	252.6	.00	.00	1479.
10	7.88	32.64	10	25.46	252.7	.25	.01	1480.
20	7.88	32.64	20	25.46	252.9	.51	.05	1480.
30	7.88	32.64	30	25.46	253.0	.76	.12	1480.
40	7.89	32.64	40	25.46	253.3	1.01	.21	1480.
50	7.90	32.64	50	25.46	253.6	1.27	.32	1480.
60	7.90	32.64	60	25.46	253.8	1.52	.46	1480.
70	7.90	32.65	70	25.47	253.2	1.77	.63	1481.
80	7.90	32.65	80	25.47	253.3	2.03	.83	1481.
90	7.87	32.83	89	25.61	239.7	2.28	1.04	1481.
100	7.56	33.14	99	25.90	212.5	2.50	1.26	1480.
110	7.32	33.32	109	26.08	196.0	2.70	1.48	1480.
120	7.17	33.42	119	26.17	186.7	2.89	1.70	1480.
130	7.06	33.55	129	26.29	175.7	3.07	1.93	1479.
140	6.98	33.62	139	26.36	169.6	3.24	2.17	1479.
150	6.91	33.70	149	26.43	162.9	3.41	2.41	1479.
160	6.78	33.77	159	26.50	156.1	3.57	2.66	1479.
170	6.67	33.83	169	26.56	150.4	3.72	2.92	1479.
180	6.52	33.87	179	26.62	145.2	3.87	3.18	1479.
190	6.38	33.89	189	26.65	142.5	4.01	3.45	1478.
200	6.27	33.91	199	26.68	139.8	4.16	3.74	1478.
210	6.12	33.92	209	26.71	137.2	4.29	4.03	1478.
220	5.96	33.92	218	26.73	135.3	4.43	4.32	1477.
230	5.79	33.92	228	26.75	133.3	4.56	4.63	1477.
240	5.65	33.92	238	26.77	131.8	4.70	4.95	1476.
250	5.51	33.94	248	26.80	128.7	4.83	5.27	1476.
260	5.44	33.94	258	26.81	128.0	4.96	5.61	1476.
270	5.33	33.95	268	26.83	126.1	5.08	5.95	1475.
280	5.19	33.94	278	26.84	125.3	5.21	6.30	1475.
290	5.04	33.94	288	26.85	123.6	5.33	6.66	1474.
300	4.98	33.94	298	26.86	123.1	5.46	7.03	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 5

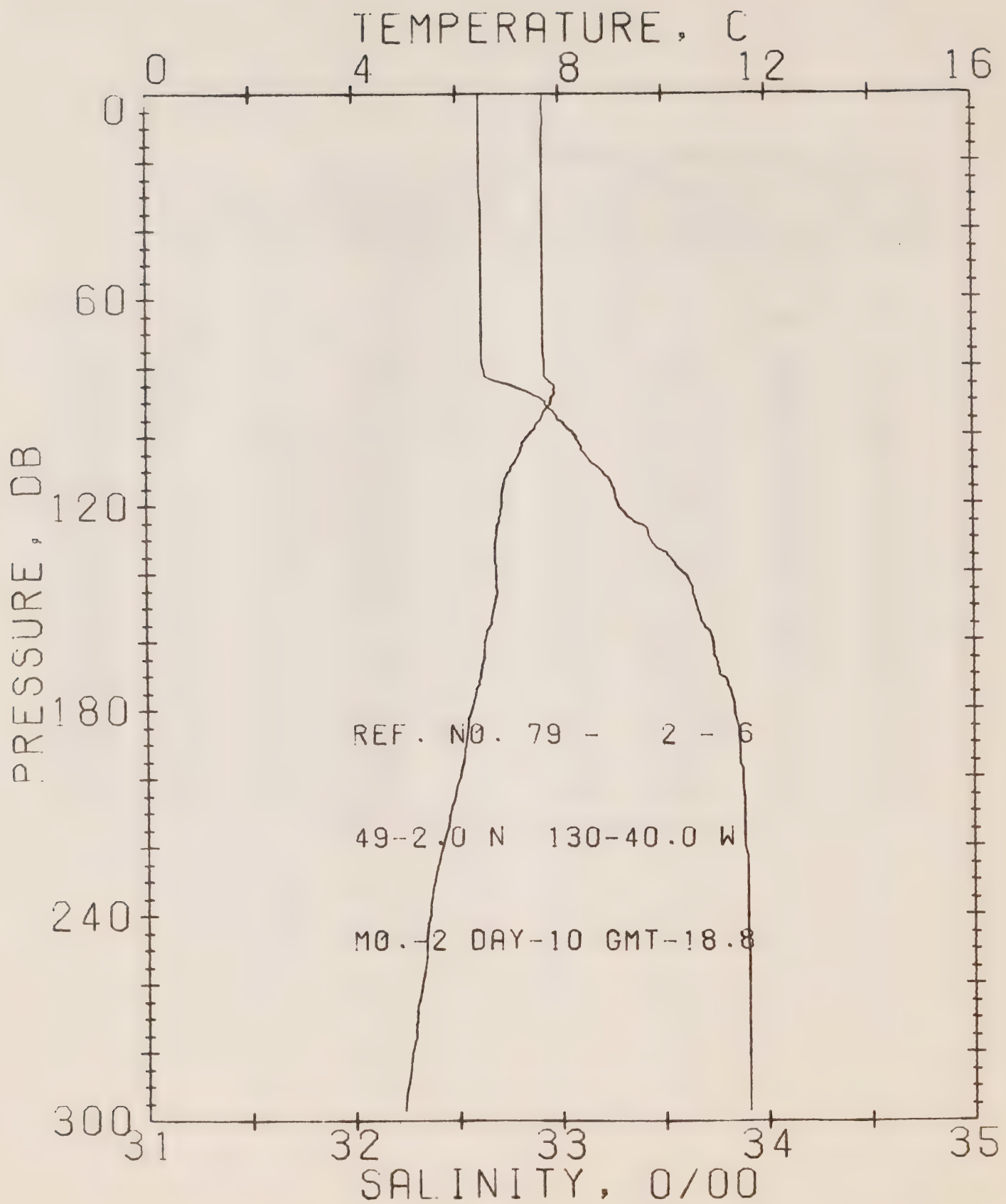
DATE 10/ 2/79

POSITION 48-51.0N, 128-40.0W GMT 12.8 STATION 5

RESULTS OF STP CAST 301 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

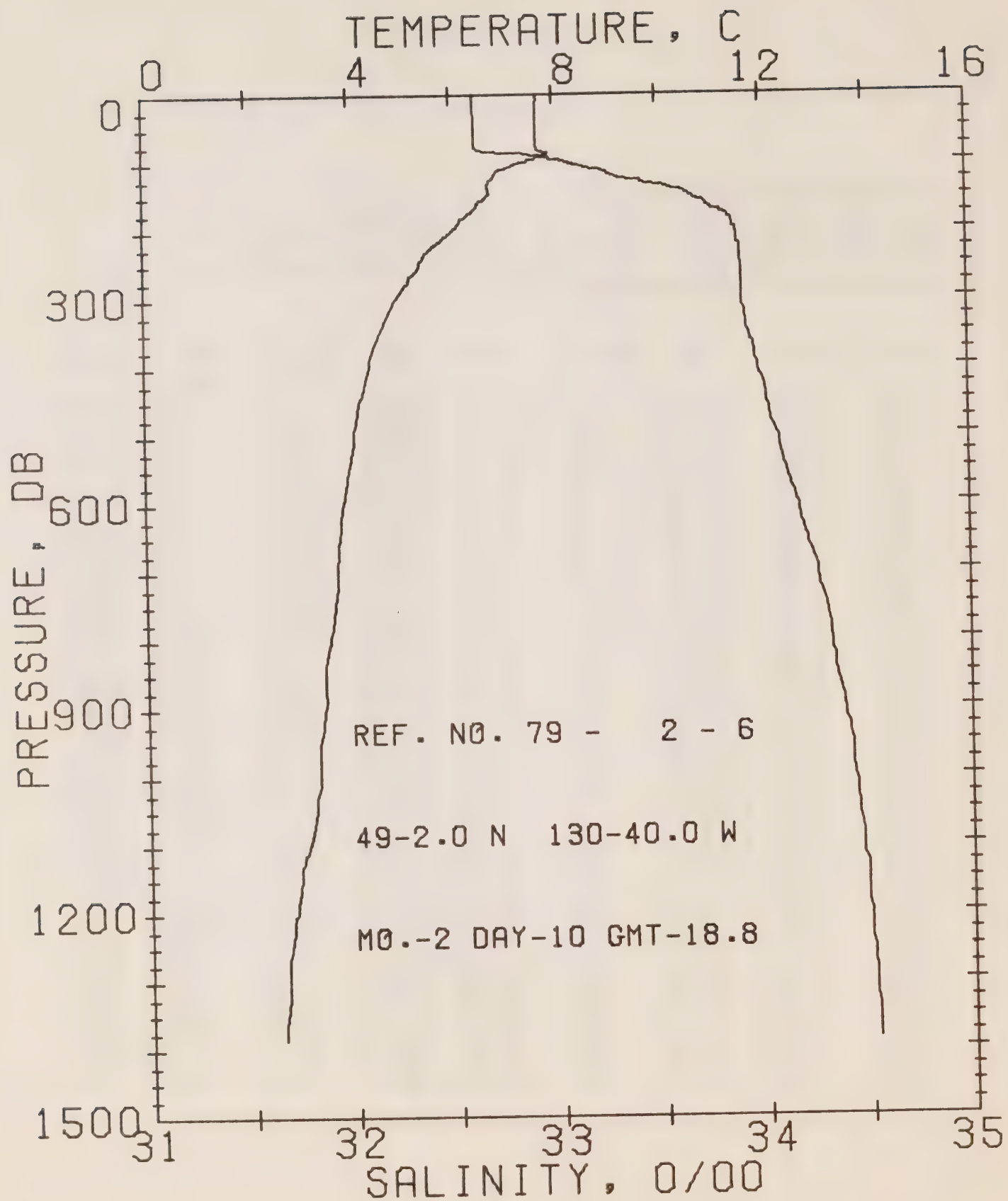
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.88	32.64	0	25.46	252.6	.00	.00	1479.
10	7.88	32.64	10	25.46	252.7	.25	.01	1480.
20	7.88	32.64	20	25.46	252.9	.51	.05	1480.
30	7.88	32.64	30	25.46	253.0	.76	.12	1480.
50	7.90	32.64	50	25.46	253.6	1.27	.32	1480.
75	7.90	32.65	75	25.47	253.2	1.90	.73	1481.
100	7.56	33.14	99	25.90	212.5	2.50	1.26	1480.
125	7.12	33.49	124	26.24	180.9	2.98	1.81	1480.
150	6.91	33.70	149	26.43	162.9	3.41	2.41	1479.
175	6.59	33.86	174	26.60	147.2	3.80	3.05	1479.
200	6.27	33.91	199	26.68	139.8	4.16	3.74	1478.
225	5.87	33.92	223	26.74	134.3	4.50	4.48	1477.
250	5.51	33.94	248	26.80	128.7	4.83	5.27	1476.
300	4.98	33.94	298	26.86	123.1	5.46	7.03	1474.
400	4.48	34.00	397	26.96	113.8	6.64	11.26	1474.
500	4.18	34.10	496	27.08	104.1	7.72	16.22	1475.
600	3.92	34.17	595	27.16	96.7	8.73	21.86	1475.
800	3.63	34.32	793	27.30	84.1	10.54	34.75	1477.
1000	3.34	34.42	990	27.41	74.9	12.12	49.19	1480.
1200	2.94	34.48	1188	27.50	67.3	13.54	65.02	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 6 DATE 10/ 2/79
 POSITION 49- 2.0N, 130-40.0W GMT 18.8 STATION 6
 RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.70	32.61	0	25.47	252.4	.00	.00	1479.
10	7.69	32.61	10	25.47	252.4	.25	.01	1479.
20	7.68	32.61	20	25.47	252.4	.50	.05	1479.
30	7.68	32.61	30	25.47	252.3	.76	.12	1479.
40	7.68	32.62	40	25.48	251.9	1.01	.21	1479.
50	7.67	32.62	50	25.48	251.9	1.26	.32	1479.
60	7.69	32.62	60	25.48	252.3	1.51	.46	1480.
70	7.68	32.62	70	25.48	252.4	1.77	.63	1480.
80	7.70	32.62	80	25.48	252.4	2.02	.82	1480.
90	7.81	32.93	89	25.70	231.4	2.26	1.03	1481.
100	7.36	33.07	99	25.87	215.0	2.49	1.25	1480.
110	7.00	33.20	109	26.03	200.7	2.70	1.47	1478.
120	6.85	33.28	119	26.11	192.9	2.89	1.70	1478.
130	6.74	33.44	129	26.25	179.7	3.08	1.94	1478.
140	6.74	33.59	139	26.37	168.7	3.25	2.18	1478.
150	6.70	33.66	149	26.43	163.1	3.42	2.42	1479.
160	6.53	33.73	159	26.51	155.5	3.58	2.68	1478.
170	6.44	33.77	169	26.55	151.9	3.73	2.94	1478.
180	6.26	33.84	179	26.63	144.5	3.88	3.20	1478.
190	6.14	33.87	189	26.66	141.1	4.02	3.47	1477.
200	6.02	33.88	199	26.69	138.8	4.16	3.74	1477.
210	5.83	33.89	209	26.72	135.9	4.30	4.03	1476.
220	5.69	33.89	218	26.74	134.3	4.43	4.33	1476.
230	5.53	33.90	228	26.77	131.7	4.56	4.63	1475.
240	5.43	33.90	238	26.78	130.7	4.70	4.95	1475.
250	5.35	33.91	248	26.79	129.3	4.83	5.27	1475.
260	5.28	33.91	258	26.80	128.4	4.95	5.61	1475.
270	5.17	33.91	268	26.82	127.1	5.08	5.95	1475.
280	5.09	33.91	278	26.82	126.4	5.21	6.31	1474.
290	4.99	33.91	288	26.84	125.3	5.33	6.67	1474.
300	4.90	33.91	298	26.85	124.4	5.46	7.05	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 6

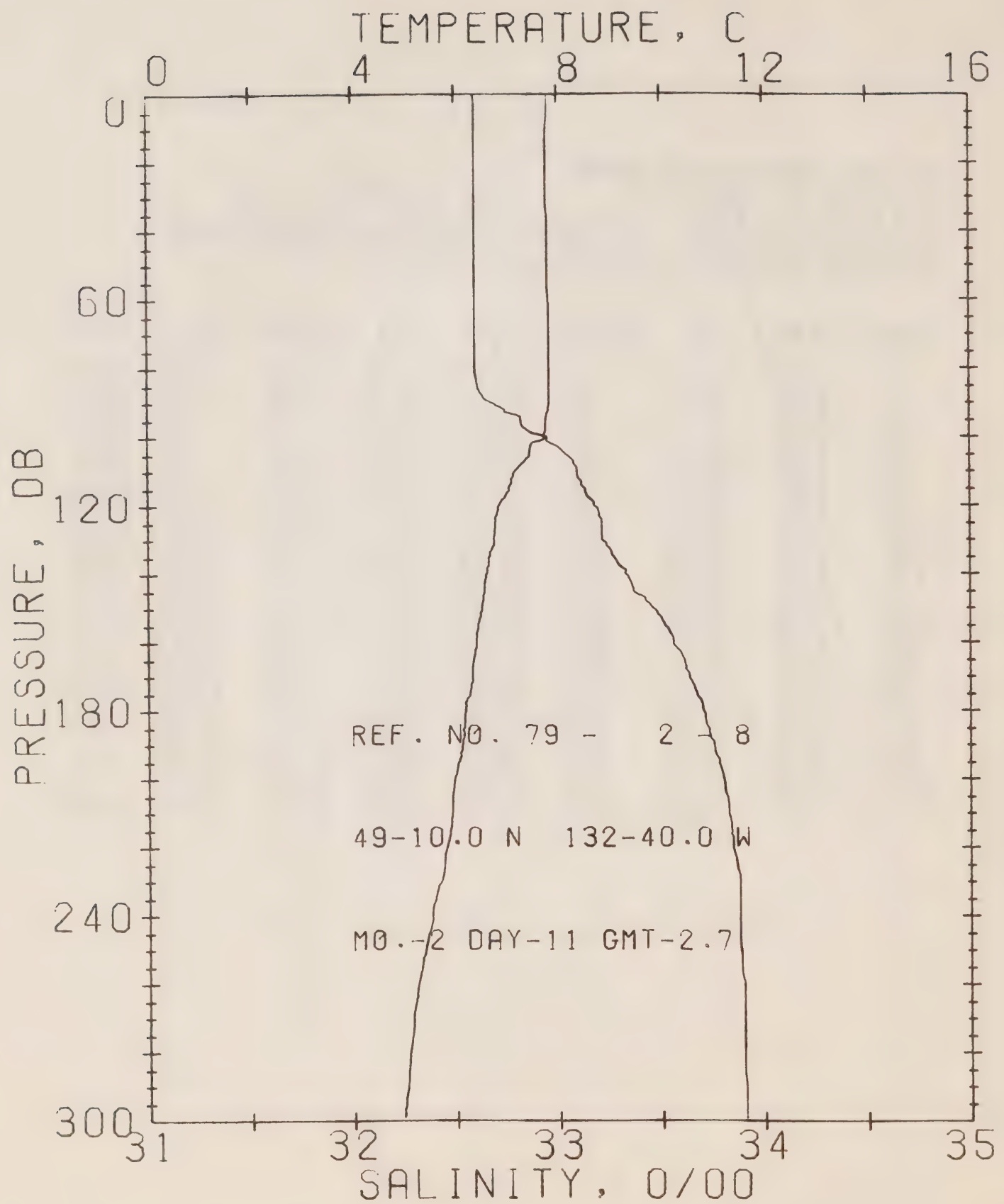
DATE 10/ 2/79

POSITION 49- 2.0N, 130-40.0W GMT 18.8 STATION 6

RESULTS OF STP CAST 278 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.70	32.61	0	25.47	252.4	.00	.00	1479.
10	7.69	32.61	10	25.47	252.4	.25	.01	1479.
20	7.68	32.61	20	25.47	252.4	.50	.05	1479.
30	7.68	32.61	30	25.47	252.3	.76	.12	1479.
50	7.67	32.62	50	25.48	251.9	1.26	.32	1479.
75	7.69	32.62	75	25.47	252.6	1.89	.72	1480.
100	7.36	33.07	99	25.87	215.0	2.49	1.25	1480.
125	6.79	33.36	124	26.18	186.3	2.99	1.82	1478.
150	6.70	33.66	149	26.43	163.1	3.42	2.42	1479.
175	6.34	33.82	174	26.60	146.5	3.80	3.07	1478.
200	6.02	33.88	199	26.69	138.8	4.16	3.74	1477.
225	5.59	33.90	223	26.76	132.4	4.50	4.48	1476.
250	5.35	33.91	248	26.79	129.3	4.83	5.27	1475.
300	4.90	33.91	298	26.85	124.4	5.46	7.05	1474.
400	4.36	33.98	397	26.96	114.1	6.65	11.28	1474.
500	4.05	34.07	496	27.06	104.9	7.75	16.30	1474.
600	3.83	34.16	595	27.16	96.3	8.76	21.97	1475.
800	3.55	34.33	793	27.32	82.7	10.54	34.66	1477.
1000	3.32	34.43	990	27.42	73.9	12.10	48.88	1480.
1200	2.82	34.50	1188	27.52	64.5	13.47	64.29	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 8

DATE 11/ 2/79

POSITION 49-10.0N, 132-40.0W

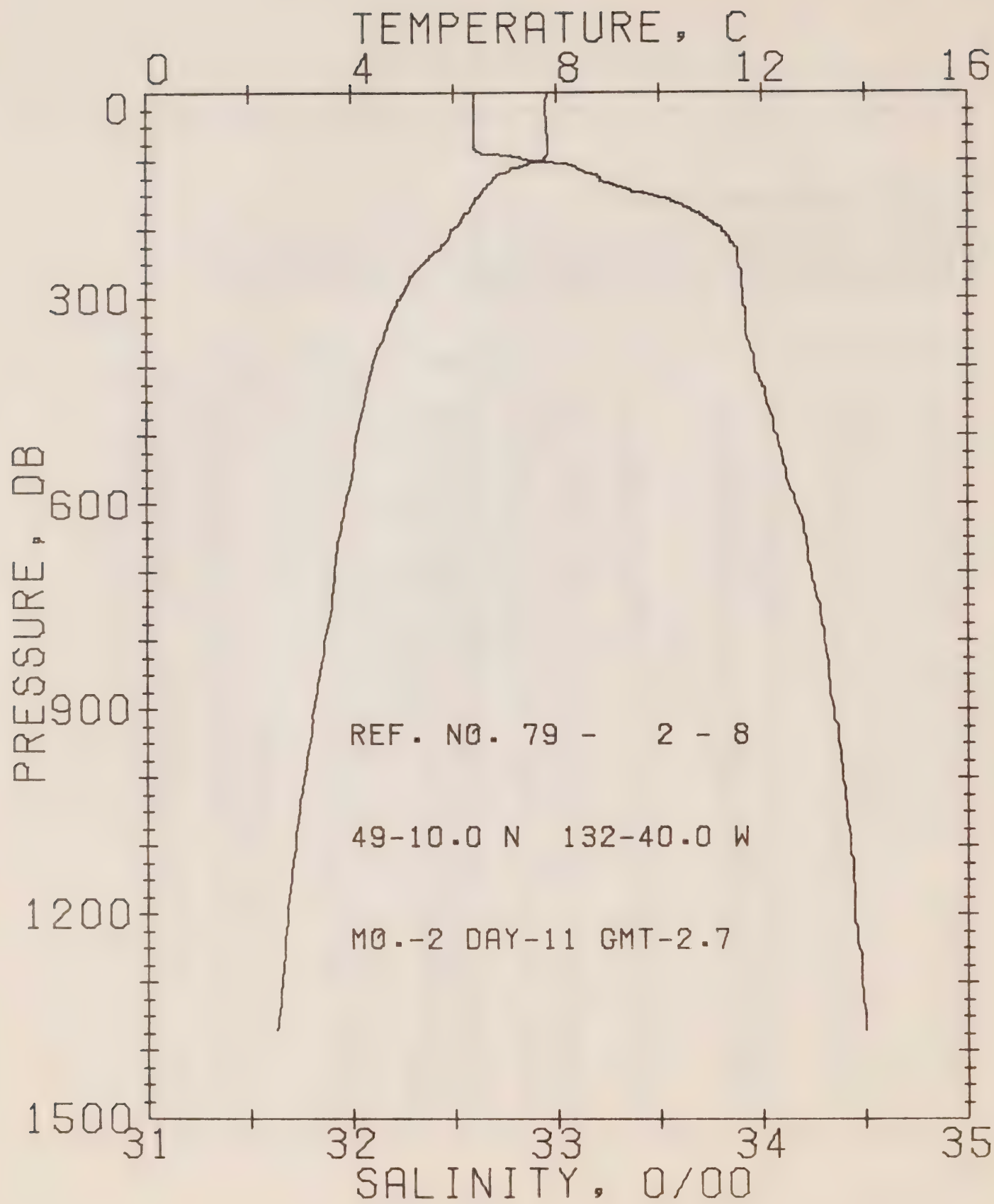
GMT 2.7

STATION 7

RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.82	32.59	0	25.43	255.5	.00	.00	1479.
10	7.79	32.60	10	25.44	254.5	.25	.01	1479.
20	7.79	32.60	20	25.45	254.6	.51	.05	1479.
30	7.79	32.60	30	25.45	254.8	.76	.12	1479.
40	7.81	32.60	40	25.44	255.2	1.02	.21	1480.
50	7.82	32.60	50	25.44	255.5	1.27	.32	1480.
60	7.83	32.60	60	25.44	255.7	1.53	.47	1480.
70	7.83	32.60	70	25.44	255.9	1.79	.64	1480.
80	7.83	32.60	80	25.44	256.1	2.04	.83	1480.
90	7.84	32.67	89	25.49	251.1	2.30	1.05	1481.
100	7.74	32.95	99	25.73	229.1	2.54	1.29	1481.
110	7.18	33.09	109	25.91	211.3	2.76	1.52	1479.
120	6.86	33.17	119	26.02	201.3	2.96	1.76	1478.
130	6.76	33.21	129	26.07	197.1	3.16	2.02	1478.
140	6.62	33.33	139	26.18	186.5	3.35	2.28	1478.
150	6.51	33.46	149	26.29	175.6	3.53	2.55	1478.
160	6.39	33.56	159	26.39	166.7	3.70	2.82	1477.
170	6.31	33.63	169	26.46	160.3	3.87	3.09	1477.
180	6.19	33.70	179	26.53	153.6	4.03	3.37	1477.
190	6.12	33.76	189	26.58	149.3	4.18	3.66	1477.
200	5.98	33.80	199	26.63	143.8	4.32	3.95	1477.
210	5.91	33.83	209	26.66	141.3	4.47	4.25	1477.
220	5.81	33.85	218	26.69	138.7	4.61	4.55	1476.
230	5.70	33.88	228	26.73	135.3	4.74	4.87	1476.
240	5.52	33.88	238	26.75	133.3	4.88	5.19	1476.
250	5.38	33.88	248	26.77	131.3	5.01	5.52	1475.
260	5.24	33.90	258	26.80	128.7	5.14	5.86	1475.
270	5.14	33.90	268	26.81	127.7	5.27	6.20	1475.
280	5.08	33.90	278	26.82	127.0	5.39	6.56	1474.
290	5.02	33.91	288	26.83	125.7	5.52	6.93	1474.
300	4.95	33.91	298	26.84	124.9	5.65	7.30	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 8

DATE 11/ 2/79

POSITION 49-10.0N, 132-40.0W

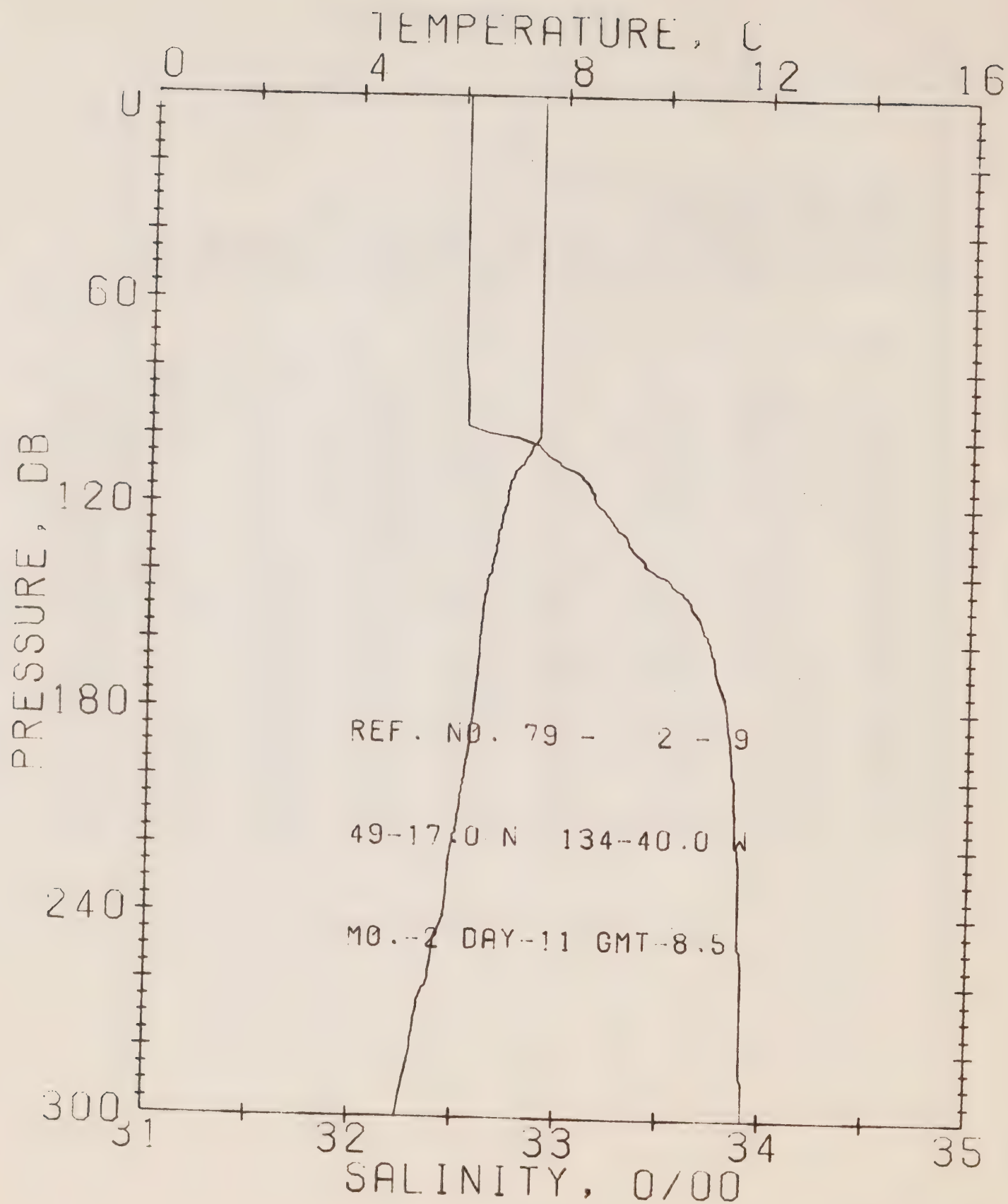
GMT 2.7

STATION 7

RESULTS OF STP CAST 321 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.82	32.59	0	25.43	255.5	.00	.00	1479.
10	7.79	32.60	10	25.44	254.5	.25	.01	1479.
20	7.79	32.60	20	25.45	254.6	.51	.05	1479.
30	7.79	32.60	30	25.45	254.8	.76	.12	1479.
50	7.82	32.60	50	25.44	255.5	1.27	.32	1480.
75	7.83	32.60	75	25.44	256.0	1.91	.73	1480.
100	7.74	32.95	99	25.73	229.1	2.54	1.29	1481.
125	6.78	33.21	124	26.06	197.3	3.06	1.89	1478.
150	6.51	33.46	149	26.29	175.6	3.53	2.55	1478.
175	6.27	33.67	174	26.49	157.2	3.95	3.23	1477.
200	5.98	33.80	199	26.63	143.8	4.32	3.95	1477.
225	5.76	33.87	223	26.71	136.9	4.67	4.71	1476.
250	5.38	33.88	248	26.77	131.3	5.01	5.52	1475.
300	4.95	33.91	298	26.84	124.9	5.65	7.30	1474.
400	4.40	33.96	397	26.94	116.0	6.85	11.59	1474.
500	4.10	34.06	496	27.05	106.0	7.96	16.65	1474.
600	3.87	34.16	595	27.15	97.2	8.97	22.36	1475.
800	3.45	34.30	793	27.31	83.5	10.77	35.13	1477.
1000	3.04	34.39	990	27.42	73.8	12.34	49.51	1478.
1200	2.72	34.45	1188	27.49	67.0	13.74	65.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 9

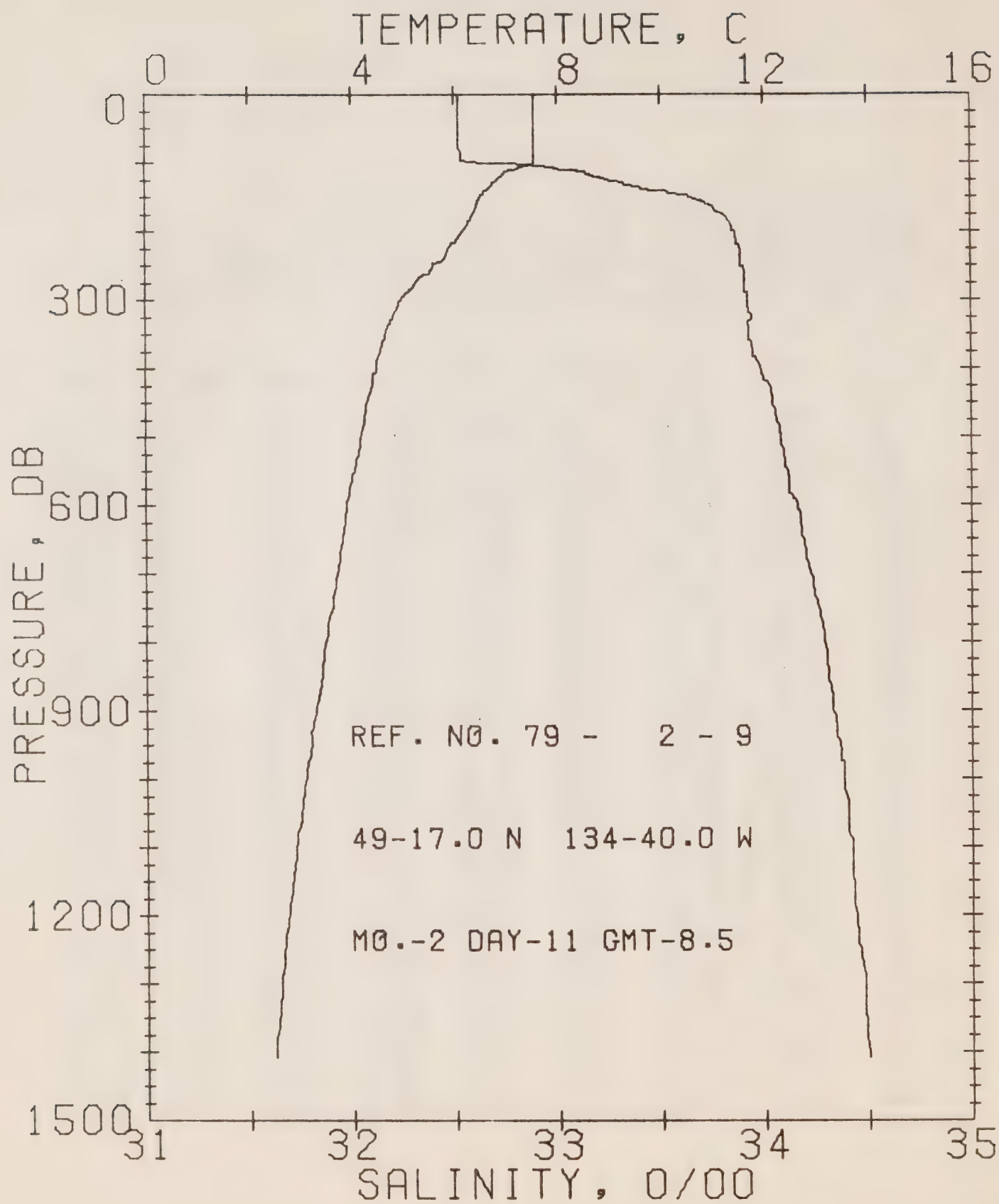
DATE 11/ 2/79

POSITION 49-17.0N, 134-40.0W GMT 8.5 STATION 8

RESULTS OF STP CAST 157 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.54	32.52	0	25.42	256.9	.00	.00	1478.
10	7.54	32.52	10	25.42	257.1	.26	.01	1478.
20	7.54	32.52	20	25.42	257.2	.51	.05	1478.
30	7.54	32.52	30	25.42	257.4	.77	.12	1478.
40	7.55	32.52	40	25.42	257.6	1.03	.21	1479.
50	7.55	32.52	50	25.42	257.8	1.29	.33	1479.
60	7.55	32.52	60	25.42	257.9	1.54	.47	1479.
70	7.54	32.52	70	25.42	257.9	1.80	.64	1479.
80	7.54	32.52	80	25.42	257.9	2.06	.84	1479.
90	7.55	32.53	89	25.42	257.6	2.32	1.06	1479.
100	7.54	32.78	99	25.62	239.0	2.57	1.31	1480.
110	7.07	33.07	109	25.91	211.3	2.80	1.55	1479.
120	6.92	33.18	119	26.02	201.3	3.00	1.79	1478.
130	6.75	33.32	129	26.16	188.4	3.20	2.04	1478.
140	6.63	33.47	139	26.29	176.2	3.38	2.29	1478.
150	6.49	33.64	149	26.44	161.9	3.55	2.54	1478.
160	6.44	33.73	159	26.52	154.7	3.71	2.79	1478.
170	6.40	33.77	169	26.55	151.4	3.86	3.05	1478.
180	6.32	33.82	179	26.60	146.8	4.01	3.31	1478.
190	6.25	33.84	189	26.63	144.6	4.15	3.59	1478.
200	6.16	33.86	199	26.65	142.0	4.30	3.87	1477.
210	6.05	33.87	209	26.68	140.1	4.44	4.17	1477.
220	5.91	33.88	218	26.70	137.7	4.58	4.47	1477.
230	5.85	33.89	228	26.72	136.3	4.71	4.79	1477.
240	5.79	33.89	238	26.72	135.7	4.85	5.11	1477.
250	5.58	33.90	248	26.76	132.6	4.99	5.45	1476.
260	5.49	33.91	258	26.78	130.8	5.12	5.79	1476.
270	5.28	33.91	268	26.80	128.5	5.25	6.14	1475.
280	5.20	33.91	278	26.81	127.7	5.37	6.50	1475.
290	5.05	33.92	288	26.84	125.3	5.50	6.87	1475.
300	4.94	33.92	298	26.85	124.1	5.63	7.24	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 9

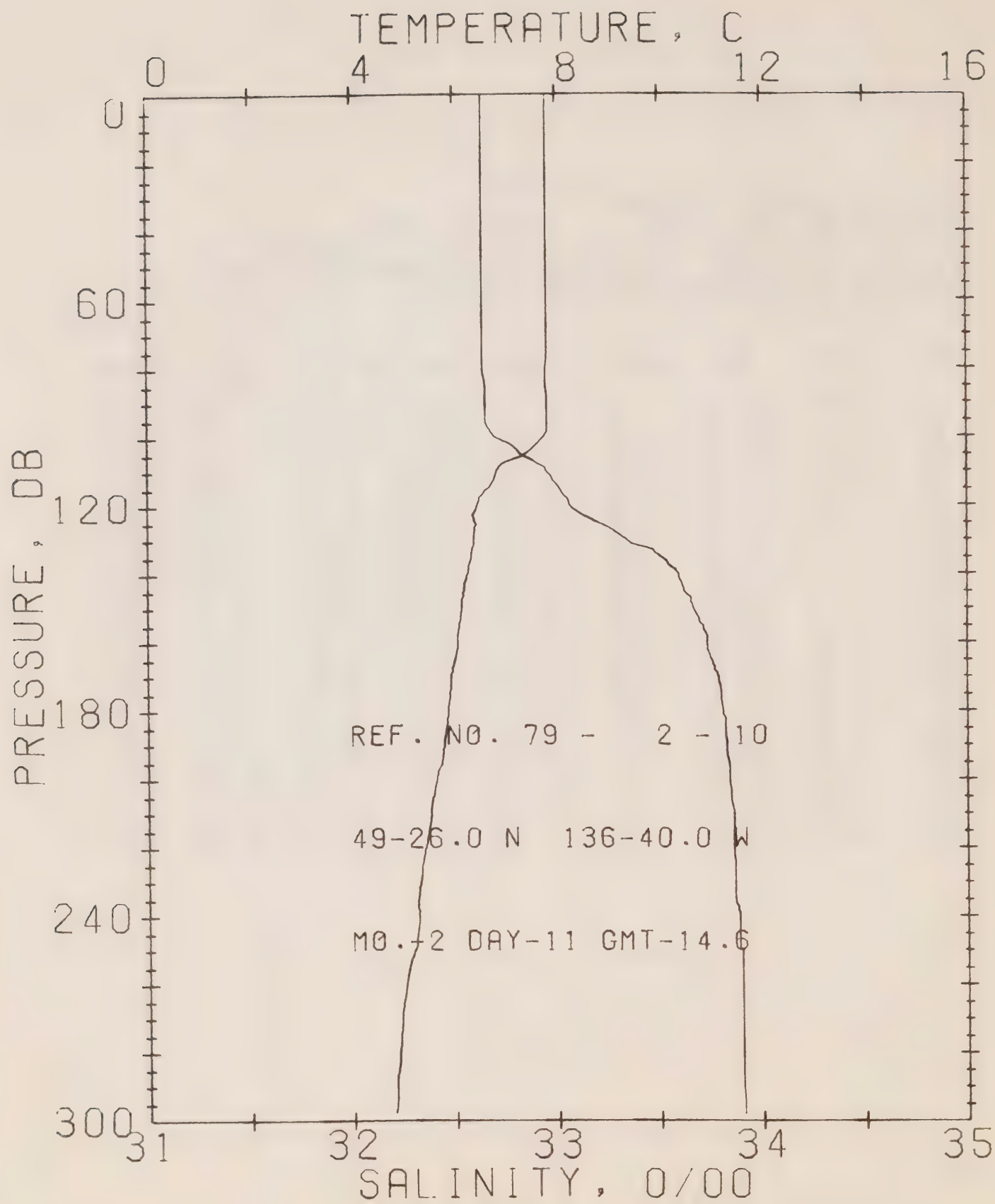
DATE 11/ 2/79

POSITION 49-17.0N, 134-40.0W GMT 8.5 STATION 8

RESULTS OF STP CAST 344 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.54	32.52	0	25.42	256.9	.00	.00	1478.
10	7.54	32.52	10	25.42	257.1	.26	.01	1478.
20	7.54	32.52	20	25.42	257.2	.51	.05	1478.
30	7.54	32.52	30	25.42	257.4	.77	.12	1478.
50	7.55	32.52	50	25.42	257.8	1.29	.33	1479.
75	7.54	32.52	75	25.42	258.0	1.93	.74	1479.
100	7.54	32.78	99	25.62	239.0	2.57	1.31	1480.
125	6.82	33.25	124	26.09	194.9	3.10	1.92	1478.
150	6.49	33.64	149	26.44	161.9	3.55	2.54	1478.
175	6.35	33.80	174	26.59	148.4	3.93	3.18	1478.
200	6.16	33.86	199	26.65	142.0	4.30	3.87	1477.
225	5.88	33.89	223	26.71	136.7	4.65	4.63	1477.
250	5.58	33.90	248	26.76	132.6	4.99	5.45	1476.
300	4.94	33.92	298	26.85	124.1	5.63	7.24	1474.
400	4.48	33.98	397	26.95	115.2	6.83	11.52	1474.
500	4.17	34.08	496	27.06	105.4	7.92	16.54	1474.
600	3.89	34.16	595	27.15	97.4	8.94	22.26	1475.
800	3.48	34.29	793	27.30	84.6	10.77	35.25	1477.
1000	3.07	34.38	990	27.41	74.9	12.37	49.85	1478.
1200	2.74	34.44	1188	27.48	67.9	13.79	65.79	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 10

DATE 11/ 2/79

POSITION 49-26.0N, 136-40.0W

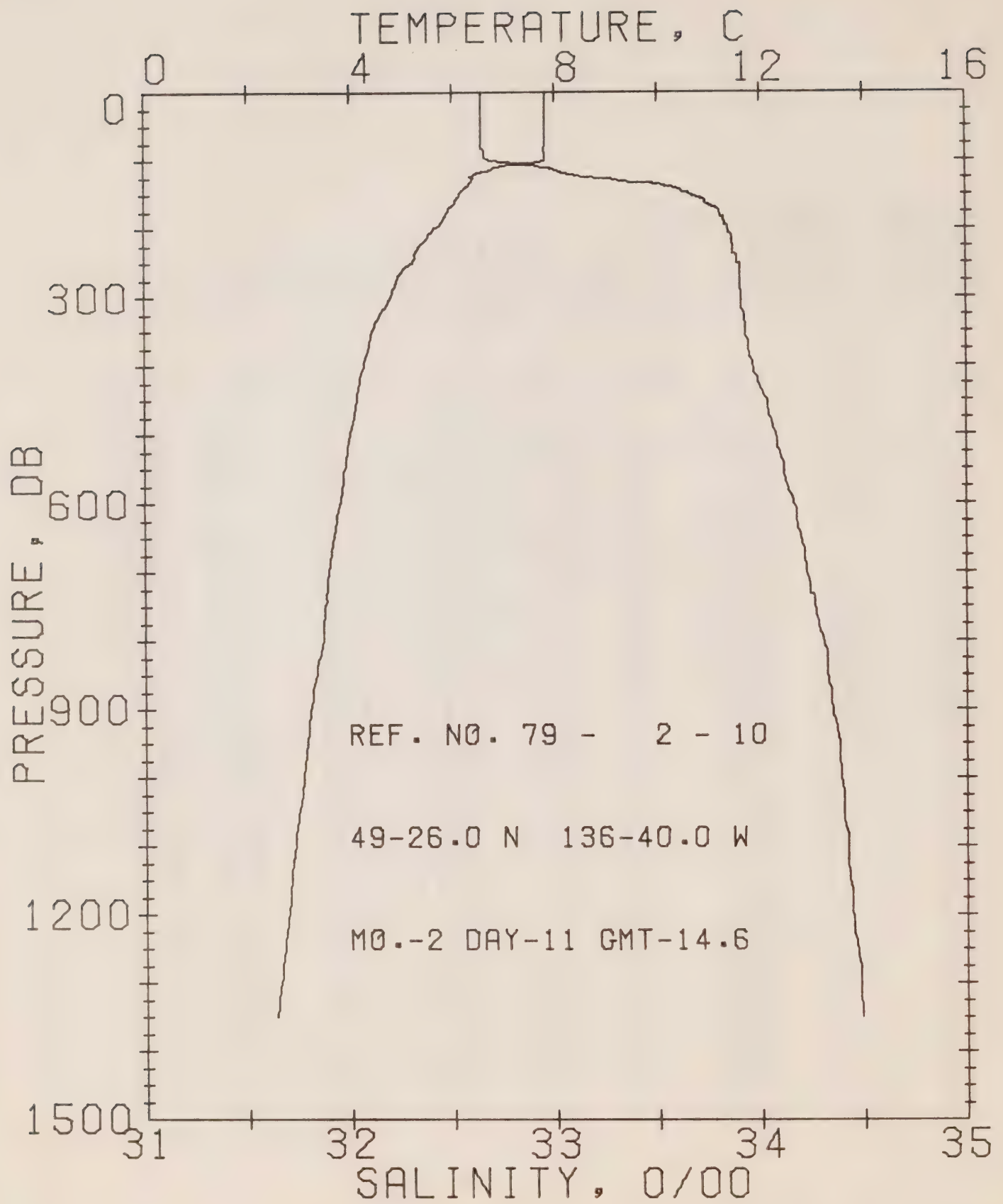
GMT 14.6

STATION 9

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.80	32.64	0	25.47	251.5	.00	.00	1479.
10	7.80	32.64	10	25.47	251.6	.25	.01	1479.
20	7.80	32.64	20	25.47	251.8	.50	.05	1479.
30	7.81	32.64	30	25.47	252.1	.76	.12	1480.
40	7.81	32.64	40	25.47	252.2	1.01	.21	1480.
50	7.81	32.64	50	25.47	252.4	1.26	.32	1480.
60	7.81	32.64	60	25.47	252.5	1.51	.46	1480.
70	7.81	32.64	70	25.47	252.6	1.76	.63	1480.
80	7.79	32.64	80	25.48	252.6	2.02	.82	1480.
90	7.81	32.65	89	25.48	252.3	2.27	1.04	1481.
100	7.77	32.69	99	25.52	248.8	2.52	1.29	1481.
110	6.84	32.95	109	25.85	217.2	2.75	1.53	1478.
120	6.45	33.06	119	25.99	204.2	2.96	1.78	1476.
130	6.38	33.34	129	26.22	182.6	3.16	2.03	1477.
140	6.26	33.59	139	26.43	162.6	3.33	2.26	1477.
150	6.13	33.66	149	26.50	155.7	3.49	2.50	1476.
160	6.05	33.73	159	26.57	149.8	3.64	2.74	1476.
170	5.92	33.79	169	26.63	143.9	3.79	2.99	1476.
180	5.87	33.81	179	26.65	141.9	3.93	3.24	1476.
190	5.79	33.83	189	26.68	139.6	4.07	3.51	1476.
200	5.63	33.84	199	26.70	137.1	4.21	3.78	1475.
210	5.52	33.86	209	26.73	134.4	4.35	4.06	1475.
220	5.42	33.86	218	26.75	133.3	4.48	4.36	1475.
230	5.32	33.87	228	26.77	131.5	4.61	4.66	1475.
240	5.28	33.89	238	26.79	129.6	4.74	4.97	1475.
250	5.19	33.90	248	26.80	128.0	4.87	5.30	1474.
260	5.02	33.90	258	26.82	126.1	5.00	5.63	1474.
270	4.94	33.90	268	26.83	125.2	5.12	5.97	1474.
280	4.89	33.90	278	26.84	124.8	5.25	6.32	1474.
290	4.83	33.90	288	26.85	124.1	5.37	6.68	1474.
300	4.78	33.91	298	26.86	123.0	5.50	7.05	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 10

DATE 11/ 2/79

POSITION 49-26.0N, 136-40.0W

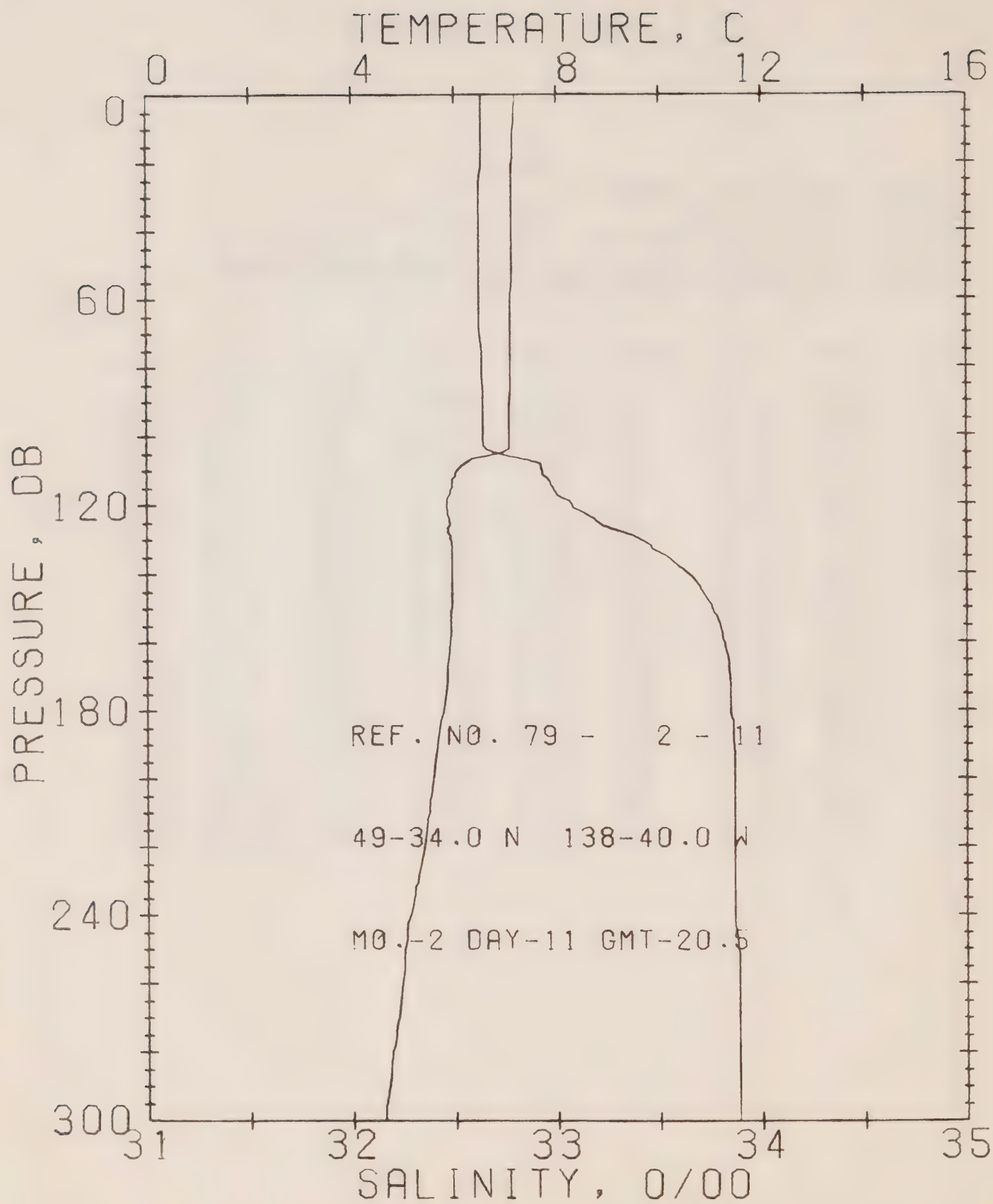
GMT 14.6

STATION 9

RESULTS OF STP CAST 309 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.80	32.64	0	25.47	251.5	.00	.00	1479.
10	7.80	32.64	10	25.47	251.6	.25	.01	1479.
20	7.80	32.64	20	25.47	251.8	.50	.05	1479.
30	7.81	32.64	30	25.47	252.1	.76	.12	1480.
50	7.81	32.64	50	25.47	252.4	1.26	.32	1480.
75	7.80	32.64	75	25.47	252.6	1.89	.72	1480.
100	7.77	32.69	99	25.52	248.8	2.52	1.29	1481.
125	6.41	33.20	124	26.10	193.4	3.06	1.90	1476.
150	6.13	33.66	149	26.50	155.7	3.49	2.50	1476.
175	5.90	33.80	174	26.64	143.0	3.86	3.11	1476.
200	5.63	33.84	199	26.70	137.1	4.21	3.78	1475.
225	5.36	33.87	223	26.76	131.8	4.55	4.51	1475.
250	5.19	33.90	248	26.80	128.0	4.87	5.30	1474.
300	4.78	33.91	298	26.86	123.0	5.50	7.05	1474.
400	4.26	33.96	397	26.96	114.5	6.68	11.27	1473.
500	4.00	34.07	496	27.07	104.4	7.77	16.26	1474.
600	3.80	34.16	595	27.16	96.3	8.78	21.90	1475.
800	3.45	34.30	793	27.31	83.3	10.57	34.67	1477.
1000	3.06	34.39	990	27.42	74.0	12.13	48.96	1478.
1200	2.77	34.44	1188	27.49	67.9	13.55	64.82	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 11

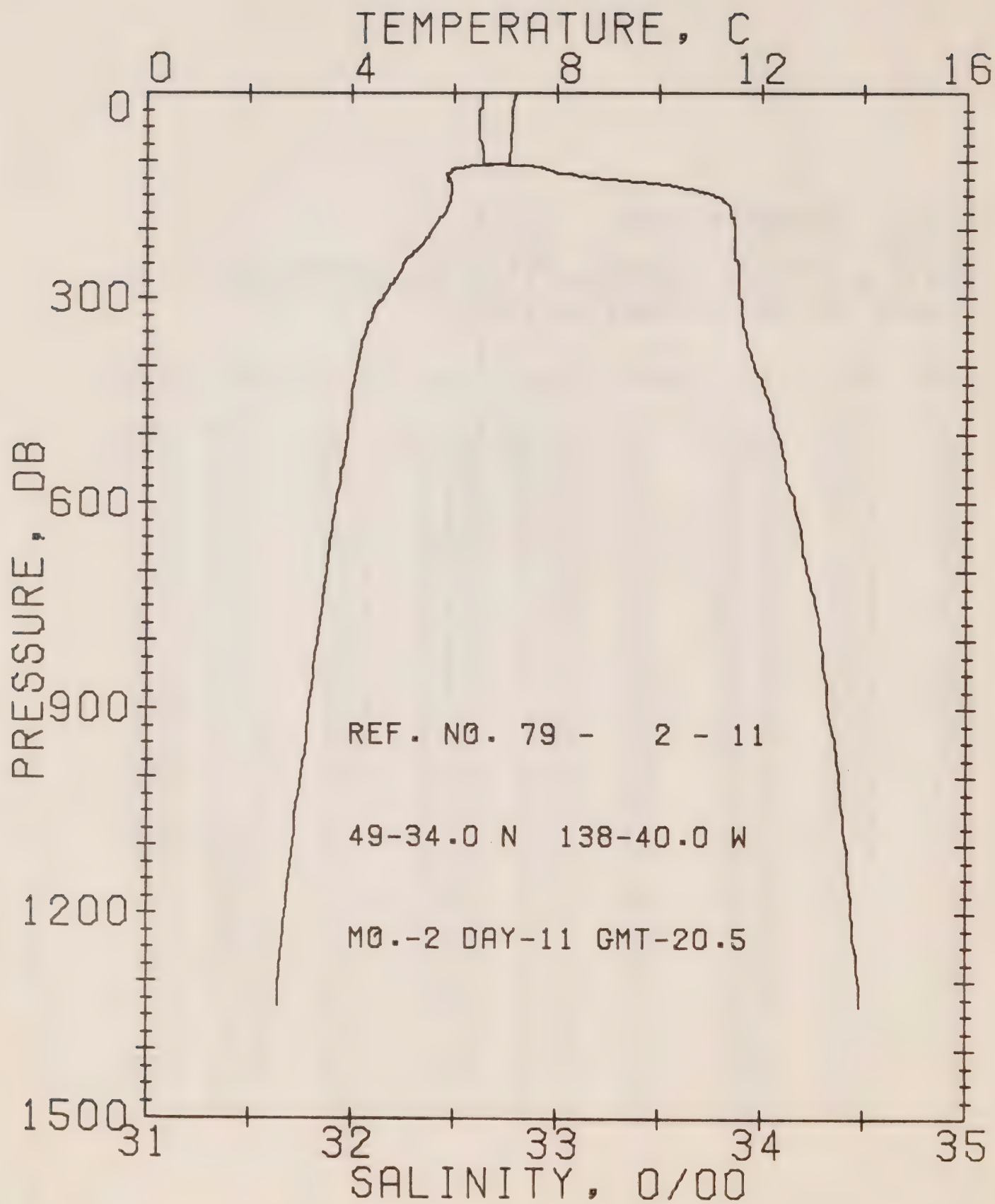
DATE 11/ 2/79

POSITION 49-34.0N, 138-40.0W GMT 20.5 STATION 10

RESULTS OF STP CAST 137 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.21	32.63	0	25.55	244.4	.00	.00	1477.
10	7.15	32.63	10	25.56	243.8	.24	.01	1477.
20	7.14	32.63	20	25.56	243.8	.49	.05	1477.
30	7.13	32.62	30	25.55	244.5	.73	.11	1477.
40	7.11	32.62	40	25.56	244.4	.98	.20	1477.
50	7.11	32.62	50	25.56	244.5	1.22	.31	1477.
60	7.10	32.62	60	25.56	244.5	1.47	.45	1477.
70	7.09	32.62	70	25.56	244.3	1.71	.61	1477.
80	7.08	32.63	80	25.57	243.8	1.95	.80	1478.
90	7.07	32.64	89	25.58	243.1	2.20	1.01	1478.
100	7.07	32.64	99	25.58	243.2	2.44	1.24	1478.
110	6.05	32.93	109	25.94	208.9	2.67	1.49	1474.
120	5.83	33.07	119	26.07	196.0	2.87	1.73	1474.
130	5.92	33.41	129	26.33	171.8	3.06	1.96	1475.
140	5.95	33.64	139	26.51	155.1	3.22	2.19	1475.
150	5.94	33.76	149	26.60	146.1	3.37	2.41	1476.
160	5.90	33.82	159	26.66	141.3	3.52	2.64	1476.
170	5.84	33.85	169	26.68	138.7	3.66	2.87	1476.
180	5.77	33.85	179	26.70	137.7	3.79	3.12	1476.
190	5.65	33.86	189	26.72	135.4	3.93	3.38	1475.
200	5.56	33.87	199	26.74	134.0	4.07	3.64	1475.
210	5.48	33.87	209	26.75	133.1	4.20	3.92	1475.
220	5.38	33.87	218	26.76	132.1	4.33	4.21	1475.
230	5.26	33.87	228	26.77	130.8	4.46	4.51	1474.
240	5.12	33.87	238	26.79	129.3	4.59	4.82	1474.
250	5.00	33.88	248	26.81	126.9	4.72	5.14	1474.
260	4.96	33.89	258	26.82	126.2	4.85	5.47	1474.
270	4.88	33.89	268	26.83	125.4	4.97	5.81	1473.
280	4.76	33.89	278	26.85	124.1	5.10	6.16	1473.
290	4.69	33.89	288	26.85	123.4	5.22	6.52	1473.
300	4.60	33.89	298	26.86	122.5	5.34	6.89	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 11

DATE 11/ 2/79

POSITION 49-34.0N, 138-40.0W

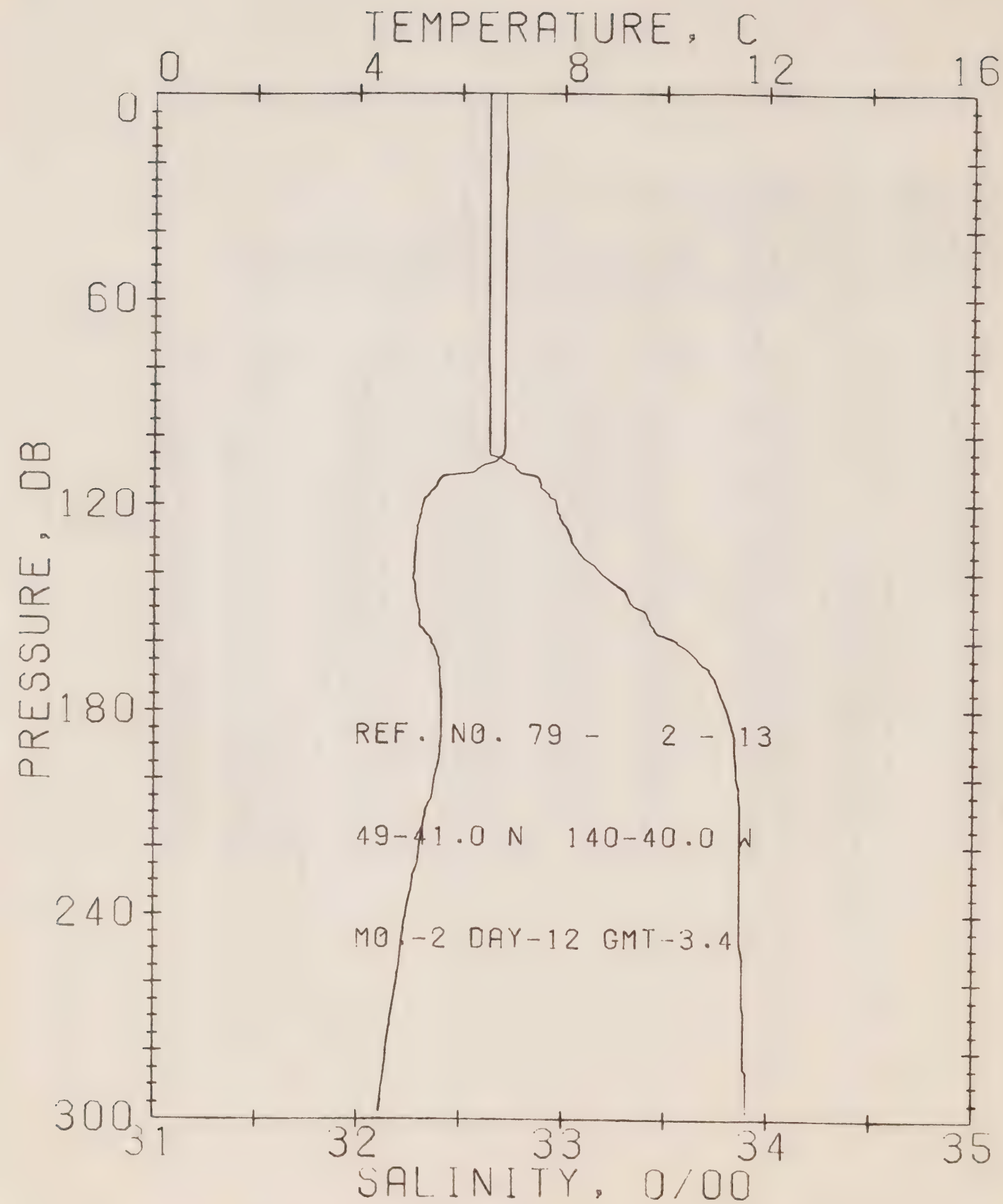
GMT 20.5

STATION 10

RESULTS OF STP CAST 257 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.21	32.63	0	25.55	244.4	.00	.00	1477.
10	7.15	32.63	10	25.56	243.8	.24	.01	1477.
20	7.14	32.63	20	25.56	243.8	.49	.05	1477.
30	7.13	32.62	30	25.55	244.5	.73	.11	1477.
50	7.11	32.62	50	25.56	244.5	1.22	.31	1477.
75	7.08	32.63	75	25.57	243.7	1.83	.70	1477.
100	7.07	32.64	99	25.58	243.2	2.44	1.24	1478.
125	5.90	33.20	124	26.17	187.2	2.97	1.85	1474.
150	5.94	33.76	149	26.60	146.1	3.37	2.41	1476.
175	5.81	33.85	174	26.69	138.2	3.73	2.99	1476.
200	5.56	33.87	199	26.74	134.0	4.07	3.64	1475.
225	5.32	33.87	223	26.77	131.5	4.40	4.36	1475.
250	5.00	33.88	248	26.81	126.9	4.72	5.14	1474.
300	4.60	33.89	298	26.86	122.5	5.34	6.89	1473.
400	4.10	33.96	397	26.97	112.6	6.52	11.06	1472.
500	3.91	34.08	496	27.08	102.9	7.59	15.98	1473.
600	3.70	34.16	595	27.17	95.2	8.58	21.54	1474.
800	3.34	34.29	793	27.31	83.1	10.36	34.19	1476.
1000	3.00	34.38	990	27.41	74.1	11.94	48.61	1478.
1200	2.70	34.44	1188	27.49	67.4	13.35	64.42	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 13

DATE 12/ 2/79

POSITION 49-41.0N, 140-40.0W

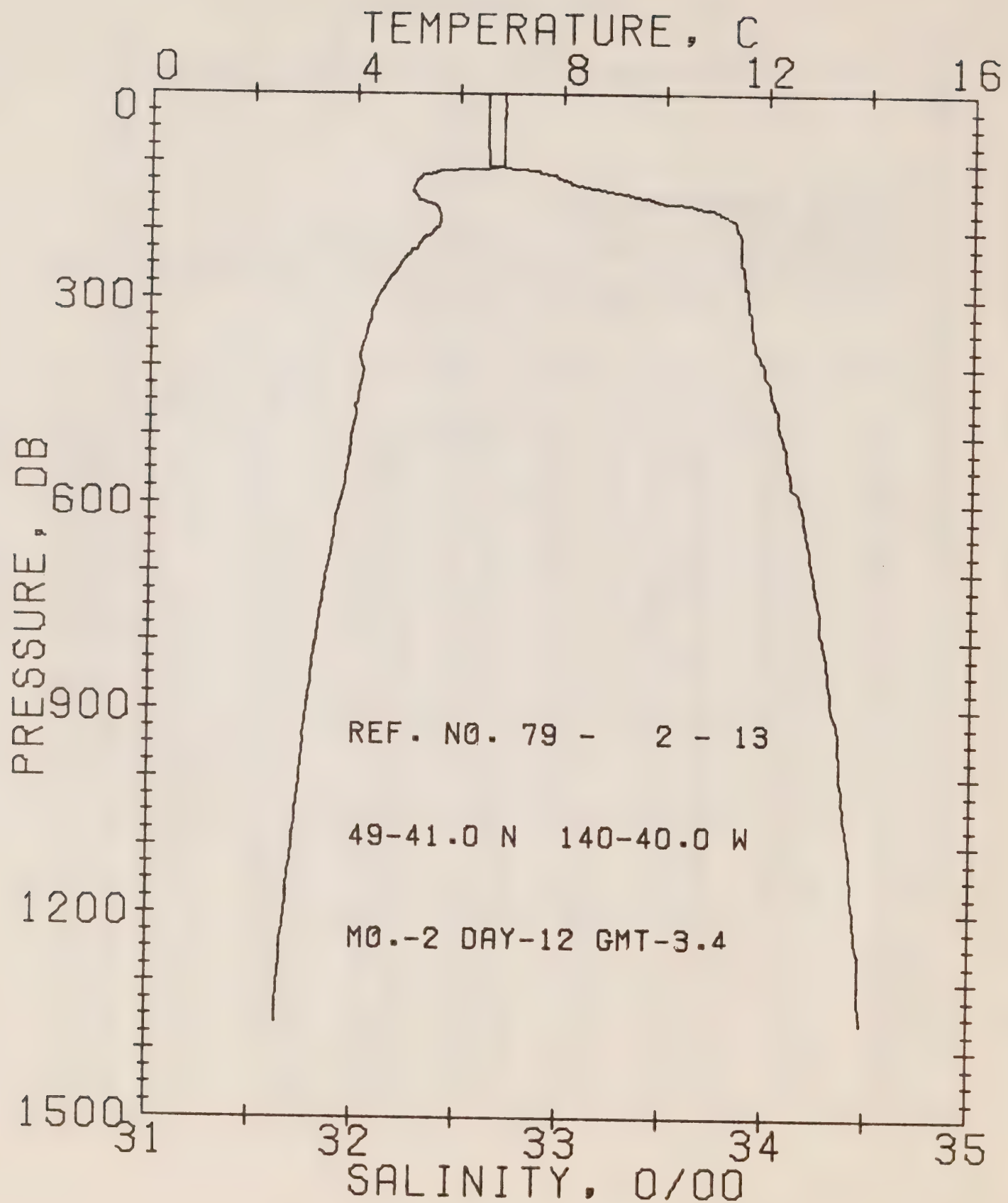
GMT 3.4

STATION 11

RESULTS OF STP CAST 129 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.85	32.63	0	25.60	239.8	.00	.00	1475.
10	6.86	32.63	10	25.60	240.1	.24	.01	1476.
20	6.87	32.63	20	25.60	240.3	.48	.05	1476.
30	6.87	32.63	30	25.60	240.4	.72	.11	1476.
40	6.86	32.63	40	25.60	240.4	.96	.20	1476.
50	6.86	32.63	50	25.60	240.6	1.20	.31	1476.
60	6.86	32.63	60	25.60	240.7	1.44	.44	1476.
70	6.86	32.63	70	25.60	240.8	1.68	.60	1477.
80	6.86	32.63	79	25.60	240.8	1.92	.78	1477.
90	6.86	32.64	89	25.60	240.3	2.16	.99	1477.
100	6.86	32.64	99	25.60	240.5	2.40	1.23	1477.
110	6.33	32.77	109	25.78	224.3	2.64	1.48	1475.
120	5.26	32.96	119	26.06	197.2	2.85	1.72	1471.
130	5.13	33.03	129	26.13	190.7	3.04	1.97	1471.
140	5.09	33.18	139	26.25	179.5	3.23	2.22	1471.
150	5.17	33.35	149	26.37	167.7	3.40	2.48	1472.
160	5.44	33.55	159	26.50	156.0	3.56	2.74	1473.
170	5.60	33.72	169	26.62	144.9	3.71	2.99	1475.
180	5.63	33.80	179	26.67	139.8	3.85	3.24	1475.
190	5.62	33.84	189	26.71	136.8	3.99	3.50	1475.
200	5.50	33.85	199	26.73	134.8	4.13	3.77	1475.
210	5.31	33.87	209	26.77	131.1	4.26	4.05	1474.
220	5.20	33.87	218	26.78	130.0	4.39	4.34	1474.
230	5.06	33.87	228	26.80	128.5	4.52	4.63	1474.
240	4.95	33.87	238	26.81	127.3	4.65	4.94	1473.
250	4.85	33.87	248	26.82	126.1	4.78	5.26	1473.
260	4.76	33.88	258	26.84	124.7	4.90	5.58	1473.
270	4.66	33.89	268	26.86	122.9	5.03	5.92	1473.
280	4.57	33.89	278	26.87	122.0	5.15	6.26	1472.
290	4.49	33.90	288	26.88	120.5	5.27	6.61	1472.
300	4.42	33.90	298	26.89	119.5	5.39	6.97	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 13

DATE 12/ 2/79

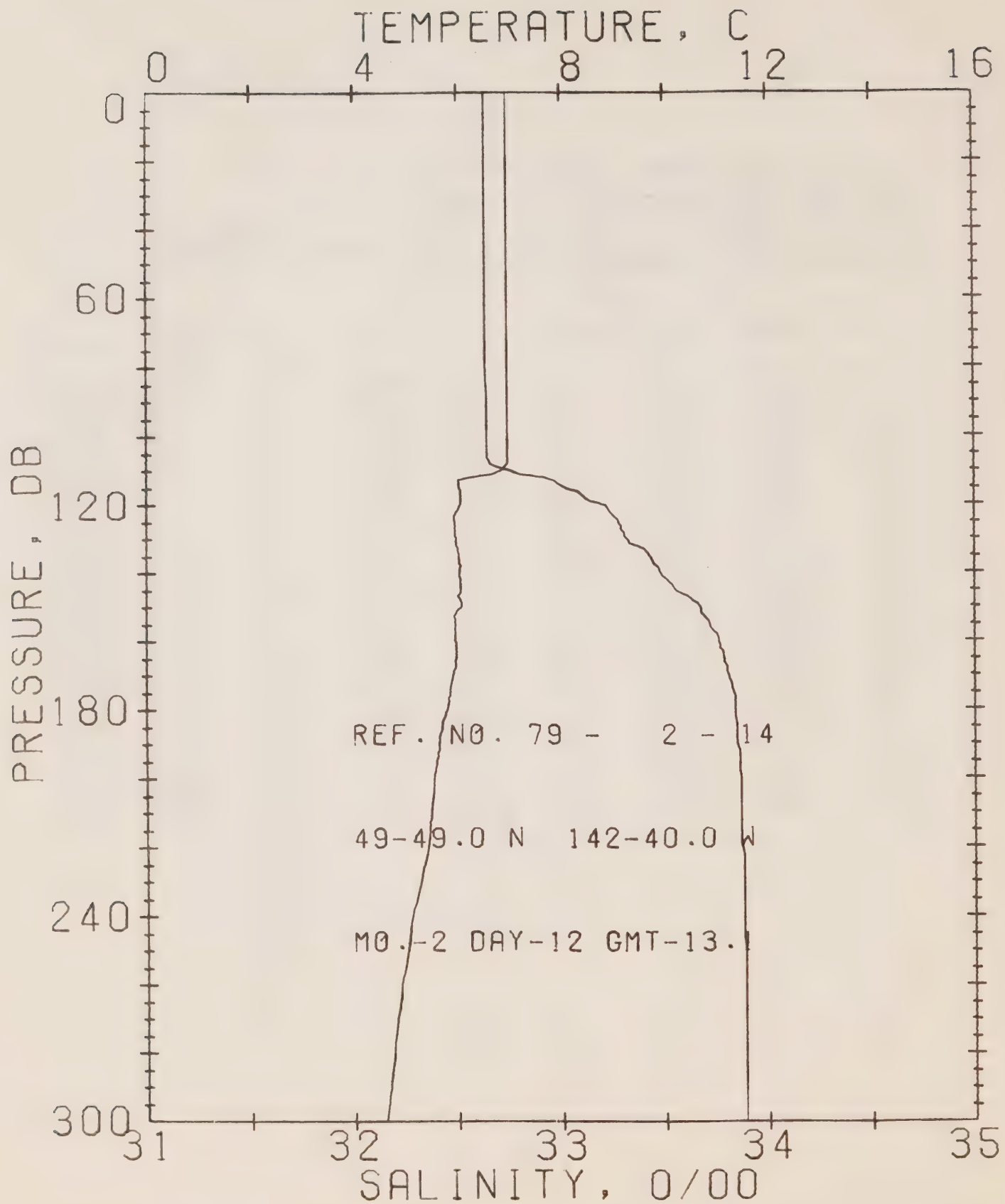
POSITION 49-41.0N, 140-40.0W GMT 3.4

STATION 11

RESULTS OF STP CAST 272 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.85	32.63	0	25.60	239.8	.00	.00	1475.
10	6.86	32.63	10	25.60	240.1	.24	.01	1476.
20	6.87	32.63	20	25.60	240.3	.48	.05	1476.
30	6.87	32.63	30	25.60	240.4	.72	.11	1476.
50	6.86	32.63	50	25.60	240.6	1.20	.31	1476.
75	6.86	32.63	75	25.60	240.9	1.80	.69	1477.
100	6.86	32.64	99	25.60	240.5	2.40	1.23	1477.
125	5.18	32.99	124	26.09	194.5	2.95	1.84	1471.
150	5.17	33.35	149	26.37	167.7	3.40	2.48	1472.
175	5.62	33.77	174	26.65	141.9	3.78	3.11	1475.
200	5.50	33.85	199	26.73	134.8	4.13	3.77	1475.
225	5.17	33.87	223	26.78	129.7	4.46	4.48	1474.
250	4.85	33.87	248	26.82	126.1	4.78	5.26	1473.
300	4.42	33.90	298	26.89	119.5	5.39	6.97	1472.
400	4.14	33.99	397	26.99	111.0	6.55	11.09	1473.
500	3.93	34.07	496	27.07	103.8	7.62	16.02	1473.
600	3.71	34.16	595	27.17	95.2	8.62	21.62	1474.
800	3.27	34.28	793	27.31	83.1	10.40	34.25	1476.
1000	2.96	34.37	990	27.41	74.3	11.96	48.53	1478.
1200	2.69	34.44	1188	27.49	67.4	13.37	64.36	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 14

DATE 12/ 2/79

POSITION 49-49.0N, 142-40.0W

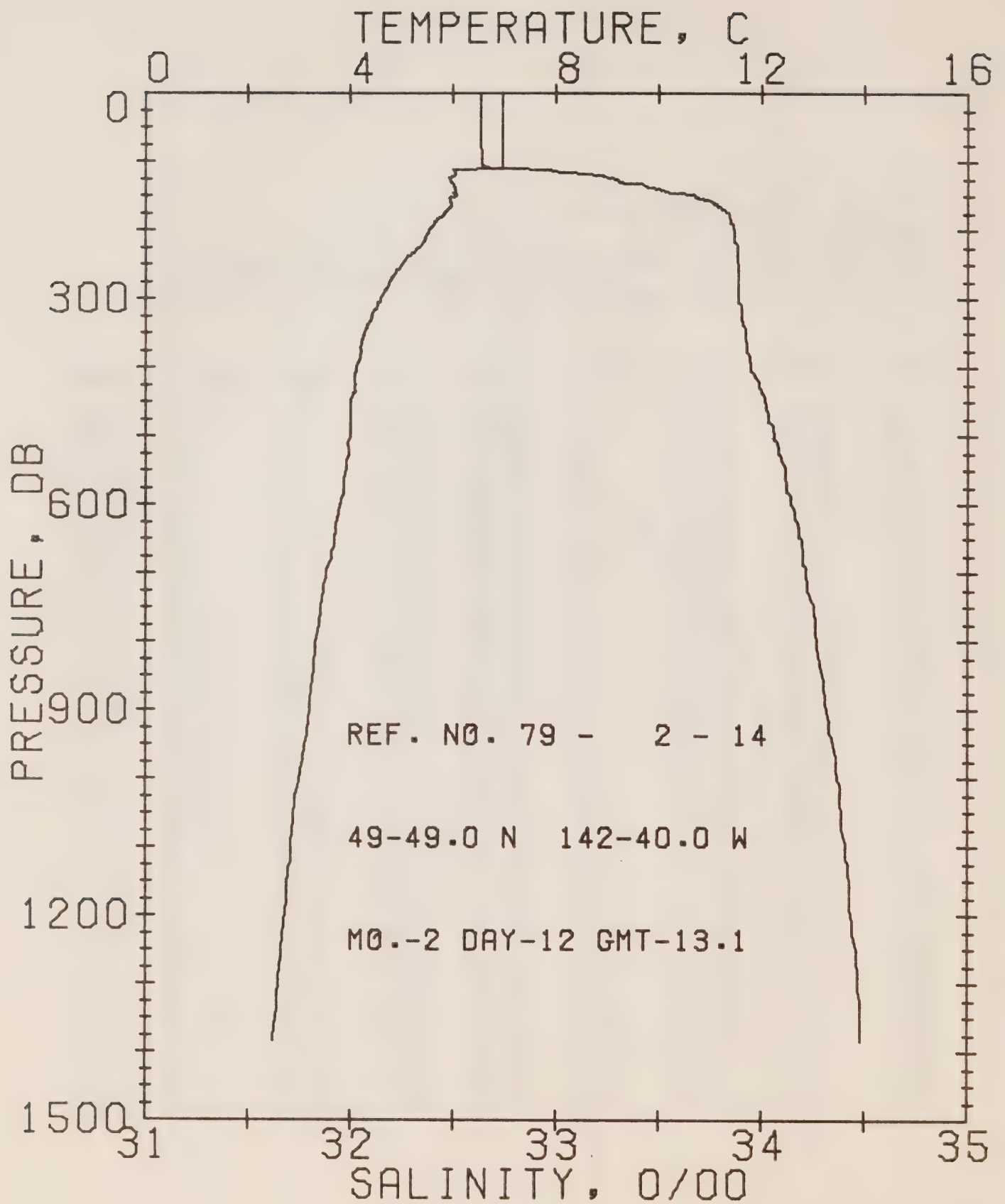
GMT 13.1

STATION 12

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.95	32.63	0	25.58	241.1	.00	.00	1476.
10	6.95	32.63	10	25.58	241.2	.24	.01	1476.
20	6.95	32.63	20	25.58	241.4	.48	.05	1476.
30	6.96	32.63	30	25.58	241.6	.72	.11	1476.
40	6.96	32.63	40	25.58	241.7	.97	.20	1476.
50	6.96	32.63	50	25.58	241.8	1.21	.31	1477.
60	6.96	32.63	60	25.58	242.0	1.45	.44	1477.
70	6.96	32.63	70	25.58	242.1	1.69	.60	1477.
80	6.96	32.63	79	25.58	242.2	1.93	.79	1477.
90	6.96	32.64	89	25.59	241.6	2.18	1.00	1477.
100	6.96	32.64	99	25.59	241.8	2.42	1.23	1477.
110	6.82	32.75	109	25.70	231.9	2.66	1.49	1477.
120	6.04	33.21	119	26.16	188.0	2.86	1.73	1475.
130	5.97	33.32	129	26.25	179.1	3.04	1.96	1475.
140	6.03	33.48	139	26.37	168.0	3.22	2.20	1475.
150	6.07	33.67	149	26.52	154.4	3.38	2.44	1476.
160	5.96	33.76	159	26.60	146.5	3.53	2.67	1476.
170	5.89	33.81	169	26.65	142.1	3.67	2.92	1476.
180	5.78	33.84	179	26.69	138.6	3.81	3.17	1476.
190	5.64	33.85	189	26.71	136.3	3.95	3.43	1475.
200	5.53	33.87	199	26.74	133.6	4.08	3.69	1475.
210	5.47	33.87	209	26.75	133.0	4.22	3.97	1475.
220	5.40	33.87	218	26.76	132.1	4.35	4.26	1475.
230	5.27	33.88	228	26.78	130.2	4.48	4.56	1474.
240	5.10	33.88	238	26.80	128.3	4.61	4.87	1474.
250	5.00	33.89	248	26.82	126.5	4.74	5.19	1474.
260	4.89	33.89	258	26.83	125.4	4.86	5.52	1473.
270	4.80	33.89	268	26.84	124.5	4.99	5.86	1473.
280	4.75	33.89	278	26.85	124.0	5.11	6.21	1473.
290	4.66	33.89	288	26.86	123.1	5.24	6.56	1473.
300	4.59	33.89	298	26.86	122.4	5.36	6.93	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 14

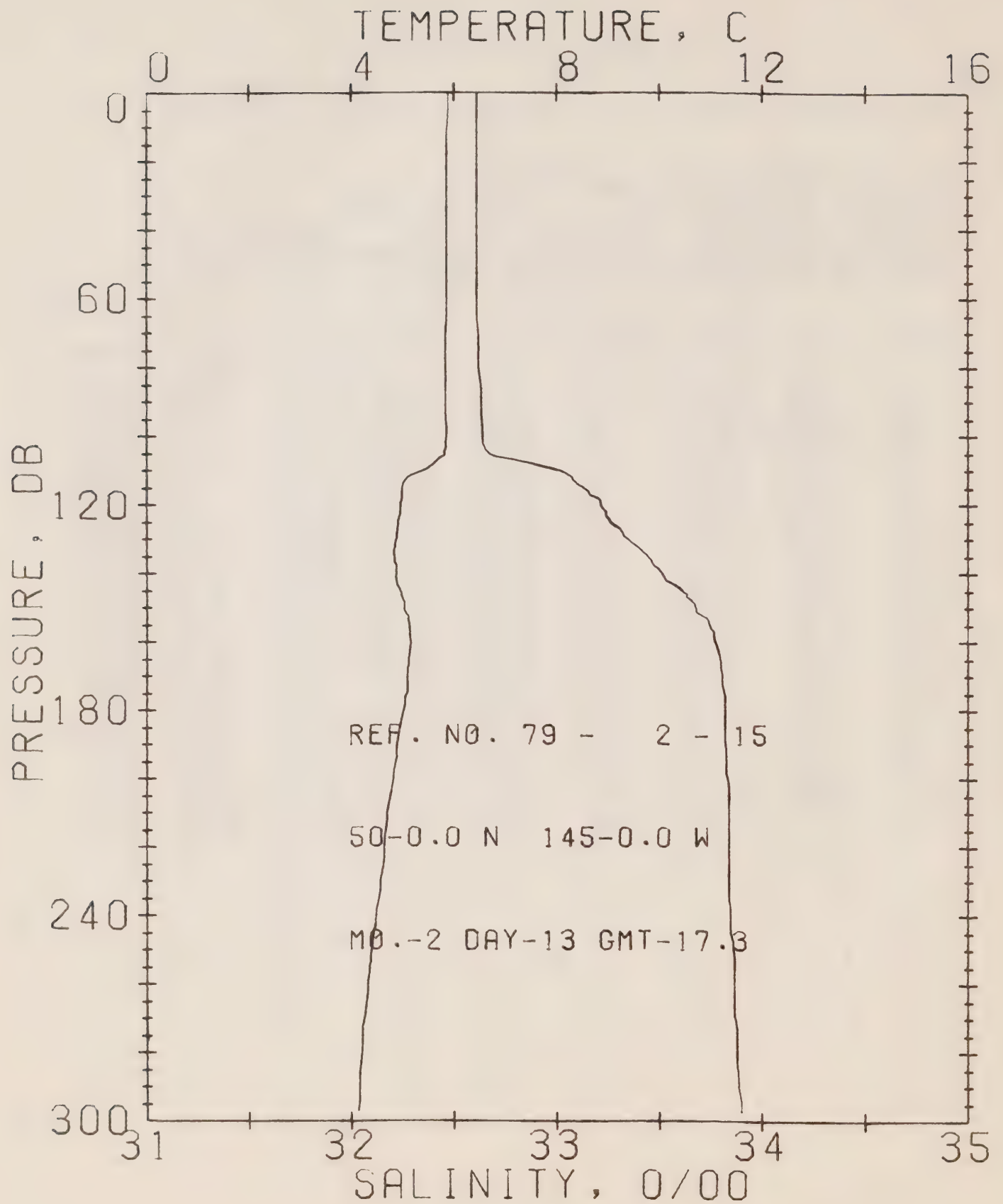
DATE 12/ 2/79

POSITION 49-49.0N, 142-40.0W GMT 13.1 STATION 12

RESULTS OF STP CAST 298 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.95	32.63	0	25.58	241.1	.00	.00	1476.
10	6.95	32.63	10	25.58	241.2	.24	.01	1476.
20	6.95	32.63	20	25.58	241.4	.48	.05	1476.
30	6.96	32.63	30	25.58	241.6	.72	.11	1476.
50	6.96	32.63	50	25.58	241.8	1.21	.31	1477.
75	6.96	32.63	75	25.58	242.2	1.81	.69	1477.
100	6.96	32.64	99	25.59	241.8	2.42	1.23	1477.
125	5.93	33.28	124	26.23	181.5	2.95	1.84	1475.
150	6.07	33.67	149	26.52	154.4	3.38	2.44	1476.
175	5.83	33.84	174	26.68	139.6	3.74	3.04	1476.
200	5.53	33.87	199	26.74	133.6	4.08	3.69	1475.
225	5.33	33.88	223	26.77	130.8	4.42	4.41	1475.
250	5.00	33.89	248	26.82	126.5	4.74	5.19	1474.
300	4.59	33.89	298	26.86	122.4	5.36	6.93	1473.
400	4.11	33.95	397	26.96	113.6	6.54	11.13	1472.
500	4.00	34.06	496	27.06	105.0	7.63	16.11	1474.
600	3.80	34.14	595	27.15	97.8	8.64	21.79	1475.
800	3.33	34.27	793	27.29	84.6	10.45	34.65	1476.
1000	2.98	34.37	990	27.41	74.7	12.05	49.28	1478.
1200	2.72	34.43	1188	27.48	68.2	13.47	65.16	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 15

DATE 13/ 2/79

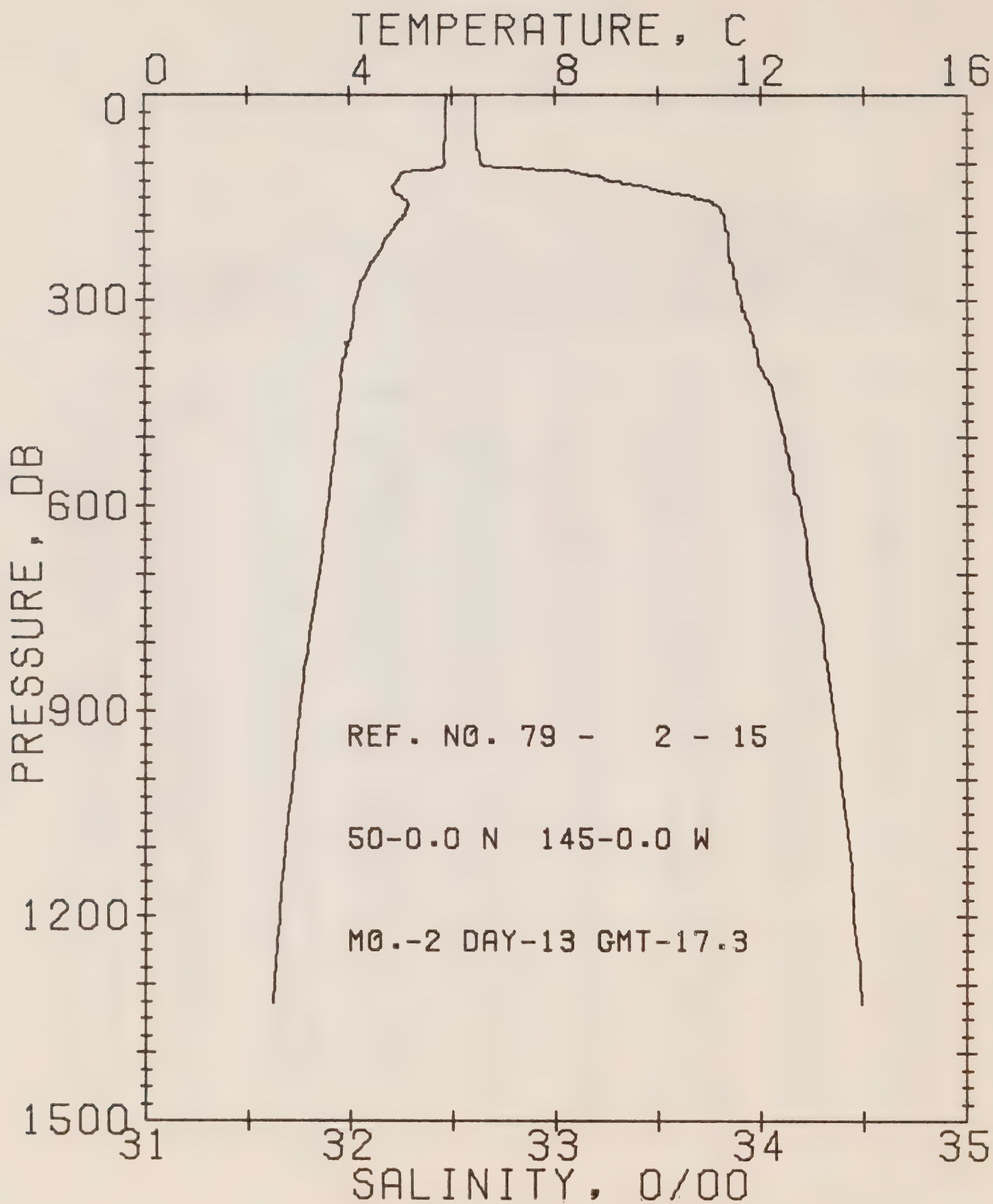
POSITION 50- .0N, 145- .0W GMT 17.3

STATION P

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.61	0	25.70	229.7	.00	.00	1471.
10	5.88	32.61	10	25.70	229.7	.23	.01	1472.
20	5.87	32.61	20	25.71	229.7	.46	.05	1472.
30	5.87	32.61	30	25.71	229.9	.69	.11	1472.
40	5.87	32.61	40	25.71	230.0	.92	.19	1472.
50	5.87	32.61	50	25.71	230.0	1.15	.29	1472.
60	5.87	32.61	60	25.71	230.1	1.38	.42	1472.
70	5.85	32.62	70	25.72	229.3	1.61	.57	1472.
80	5.85	32.62	79	25.72	229.4	1.84	.75	1473.
90	5.84	32.63	89	25.73	228.7	2.07	.95	1473.
100	5.86	32.64	99	25.73	228.2	2.30	1.17	1473.
110	5.47	33.01	109	26.07	196.1	2.52	1.40	1472.
120	4.97	33.21	119	26.28	175.7	2.70	1.62	1470.
130	4.88	33.35	129	26.41	164.3	2.87	1.84	1470.
140	4.88	33.51	139	26.53	152.5	3.03	2.05	1471.
150	5.05	33.68	149	26.65	141.7	3.17	2.27	1472.
160	5.15	33.78	159	26.71	135.9	3.31	2.49	1473.
170	5.10	33.81	169	26.74	132.7	3.45	2.71	1473.
180	5.02	33.82	179	26.76	131.2	3.58	2.95	1472.
190	4.90	33.82	189	26.78	129.6	3.71	3.19	1472.
200	4.81	33.84	199	26.80	128.0	3.84	3.45	1472.
210	4.70	33.84	209	26.81	126.5	3.96	3.72	1472.
220	4.64	33.84	218	26.82	126.0	4.09	3.99	1472.
230	4.57	33.84	228	26.83	125.3	4.22	4.28	1471.
240	4.49	33.85	238	26.84	123.8	4.34	4.58	1471.
250	4.39	33.86	248	26.87	121.8	4.46	4.89	1471.
260	4.33	33.87	258	26.88	120.7	4.58	5.20	1471.
270	4.25	33.87	268	26.89	119.8	4.70	5.53	1471.
280	4.20	33.88	278	26.90	118.8	4.82	5.86	1471.
290	4.16	33.89	288	26.91	117.7	4.94	6.20	1471.
300	4.12	33.90	298	26.93	116.3	5.06	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 15

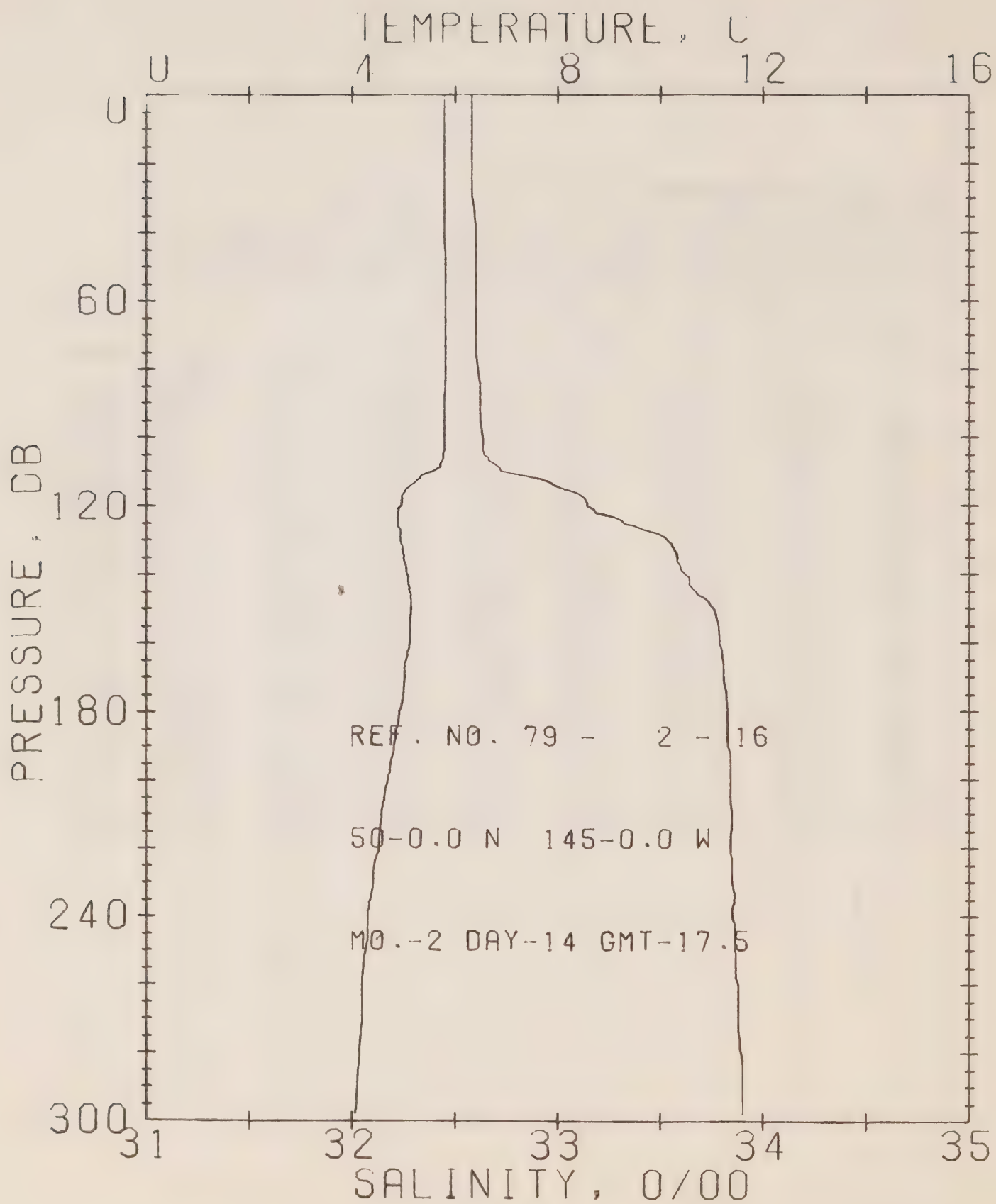
DATE 13/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 240 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.61	0	25.70	229.7	.00	.00	1471.
10	5.88	32.61	10	25.70	229.7	.23	.01	1472.
20	5.87	32.61	20	25.71	229.7	.46	.05	1472.
30	5.87	32.61	30	25.71	229.9	.69	.11	1472.
50	5.87	32.61	50	25.71	230.0	1.15	.29	1472.
75	5.85	32.62	75	25.72	229.3	1.72	.66	1473.
100	5.86	32.64	99	25.73	228.2	2.30	1.17	1473.
125	4.92	33.26	124	26.33	171.5	2.79	1.73	1470.
150	5.05	33.68	149	26.65	141.7	3.17	2.27	1472.
175	5.09	33.82	174	26.75	132.0	3.51	2.83	1473.
200	4.81	33.84	199	26.80	128.0	3.84	3.45	1472.
225	4.62	33.84	223	26.82	125.7	4.15	4.13	1472.
250	4.39	33.86	248	26.87	121.8	4.46	4.89	1471.
300	4.12	33.90	298	26.93	116.3	5.06	6.55	1471.
400	3.84	34.00	397	27.03	107.3	6.18	10.54	1471.
500	3.73	34.11	496	27.13	98.5	7.20	15.22	1473.
600	3.58	34.19	595	27.20	91.9	8.16	20.57	1474.
800	3.18	34.31	793	27.34	80.2	9.89	32.87	1476.
1000	2.87	34.39	990	27.43	71.9	11.40	46.75	1478.
1200	2.61	34.45	1188	27.50	65.8	12.77	62.07	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 16

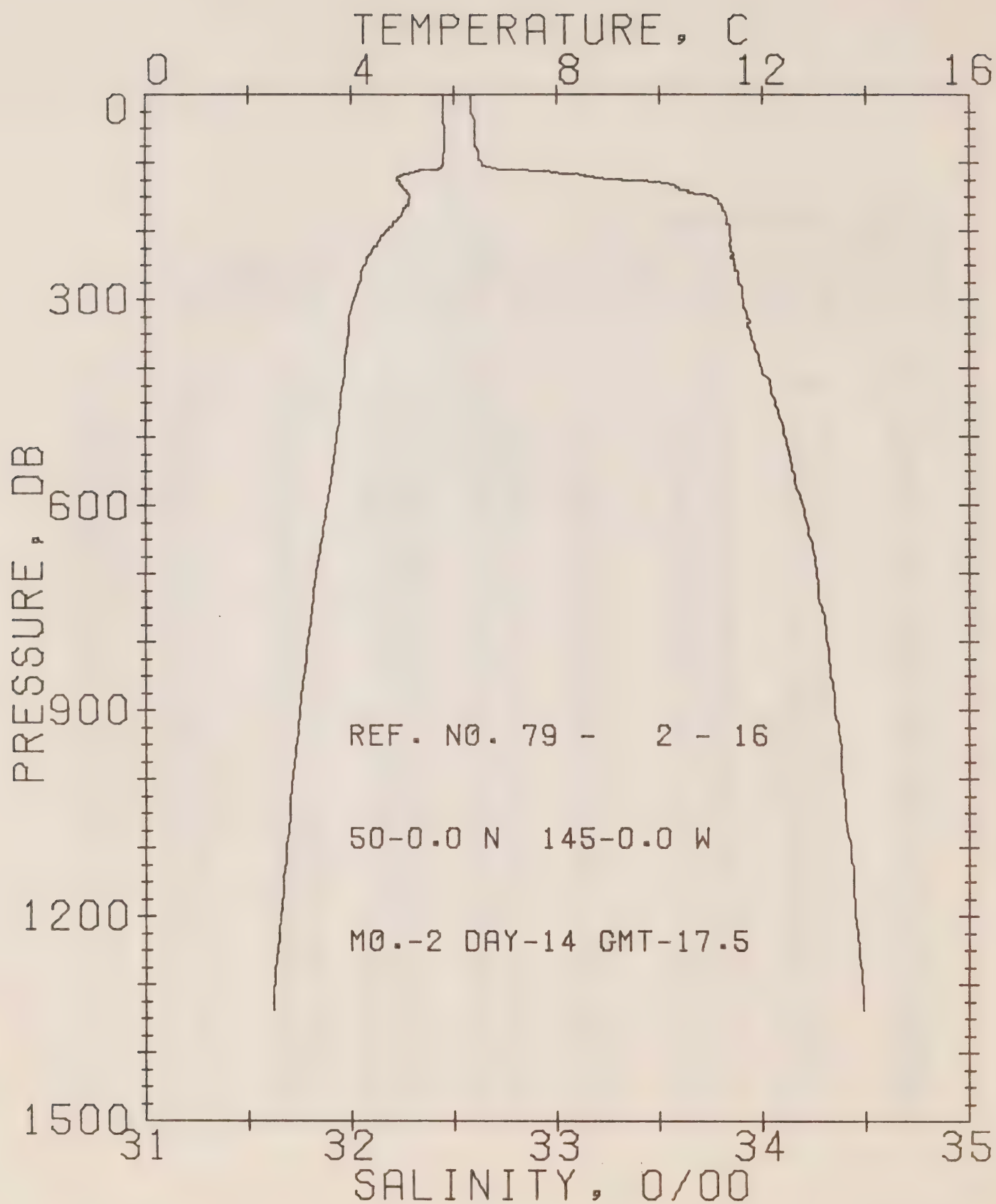
DATE 14/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.78	32.58	0	25.69	230.7	.00	.00	1471.
10	5.79	32.58	10	25.69	230.9	.23	.01	1471.
20	5.78	32.58	20	25.69	230.9	.46	.05	1471.
30	5.78	32.58	30	25.70	230.9	.69	.11	1471.
40	5.78	32.60	40	25.71	229.6	.92	.19	1472.
50	5.80	32.60	50	25.71	230.0	1.15	.29	1472.
60	5.80	32.60	60	25.71	230.1	1.38	.42	1472.
70	5.80	32.60	70	25.71	230.2	1.61	.57	1472.
80	5.80	32.61	79	25.71	229.7	1.84	.75	1472.
90	5.79	32.62	89	25.72	228.8	2.07	.95	1473.
100	5.79	32.63	99	25.73	228.1	2.30	1.17	1473.
110	5.58	32.72	109	25.83	219.1	2.53	1.41	1472.
120	4.95	33.14	119	26.23	180.7	2.72	1.64	1470.
130	4.94	33.53	129	26.54	151.5	2.88	1.85	1471.
140	5.07	33.62	139	26.60	146.3	3.03	2.05	1472.
150	5.15	33.76	149	26.70	136.9	3.18	2.26	1472.
160	5.11	33.79	159	26.73	134.3	3.31	2.48	1472.
170	5.00	33.81	169	26.76	131.7	3.44	2.70	1472.
180	4.91	33.83	179	26.78	129.3	3.57	2.93	1472.
190	4.81	33.83	189	26.79	128.3	3.70	3.18	1472.
200	4.69	33.84	199	26.81	126.2	3.83	3.43	1471.
210	4.56	33.85	209	26.84	124.2	3.96	3.69	1471.
220	4.50	33.84	218	26.83	124.5	4.08	3.96	1471.
230	4.39	33.85	228	26.85	122.6	4.20	4.24	1471.
240	4.29	33.85	238	26.87	121.6	4.32	4.54	1470.
250	4.26	33.86	248	26.88	120.3	4.45	4.84	1471.
260	4.19	33.88	258	26.90	118.5	4.56	5.15	1470.
270	4.18	33.88	268	26.90	118.5	4.68	5.47	1471.
280	4.13	33.89	278	26.92	117.0	4.80	5.80	1470.
290	4.09	33.90	288	26.93	116.3	4.92	6.14	1471.
300	4.05	33.91	298	26.93	115.4	5.03	6.49	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 16

DATE 14/ 2/79

POSITION 50- .0N, 145- .0W

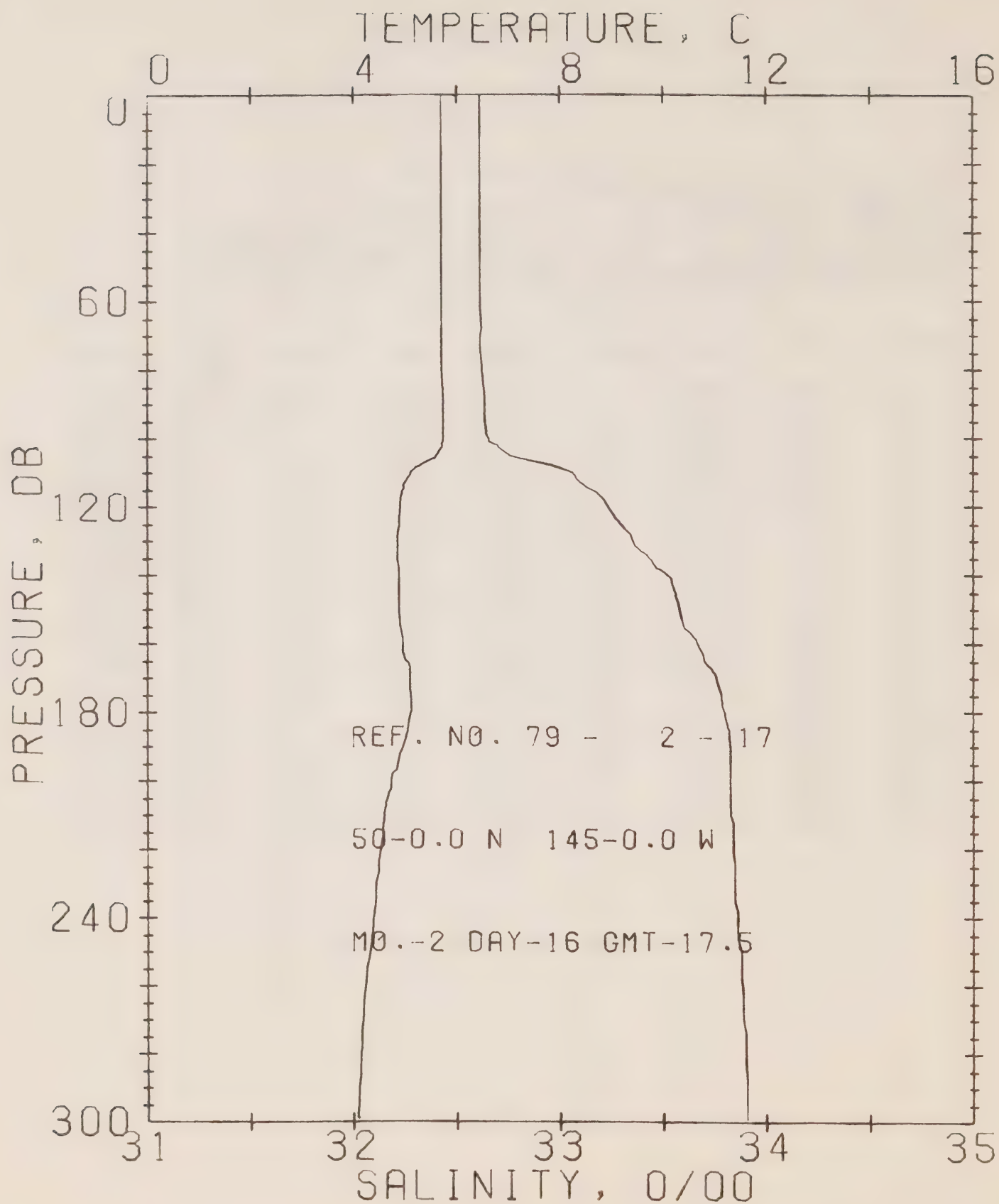
GMT 17.5

STATION P

RESULTS OF STP CAST 248 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.78	32.58	0	25.69	230.7	.00	.00	1471.
10	5.79	32.58	10	25.69	230.9	.23	.01	1471.
20	5.78	32.58	20	25.69	230.9	.46	.05	1471.
30	5.78	32.58	30	25.70	230.9	.69	.11	1471.
50	5.80	32.60	50	25.71	230.0	1.15	.29	1472.
75	5.80	32.60	75	25.71	230.2	1.73	.66	1472.
100	5.79	32.63	99	25.73	228.1	2.30	1.17	1473.
125	4.89	33.32	124	26.38	166.7	2.81	1.75	1470.
150	5.15	33.76	149	26.70	136.9	3.18	2.26	1472.
175	4.99	33.82	174	26.76	130.9	3.51	2.82	1472.
200	4.69	33.84	199	26.81	126.2	3.83	3.43	1471.
225	4.43	33.85	223	26.85	123.0	4.14	4.10	1471.
250	4.26	33.86	248	26.88	120.3	4.45	4.84	1471.
300	4.05	33.91	298	26.93	115.4	5.03	6.49	1471.
400	3.87	33.99	397	27.02	107.9	6.15	10.46	1471.
500	3.71	34.10	496	27.13	98.7	7.18	15.17	1473.
600	3.52	34.19	595	27.21	91.0	8.13	20.50	1474.
800	3.15	34.31	793	27.35	79.4	9.82	32.53	1475.
1000	2.85	34.39	990	27.43	71.9	11.33	46.32	1478.
1200	2.62	34.45	1188	27.50	65.8	12.70	61.68	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 17

DATE 16/ 2/79

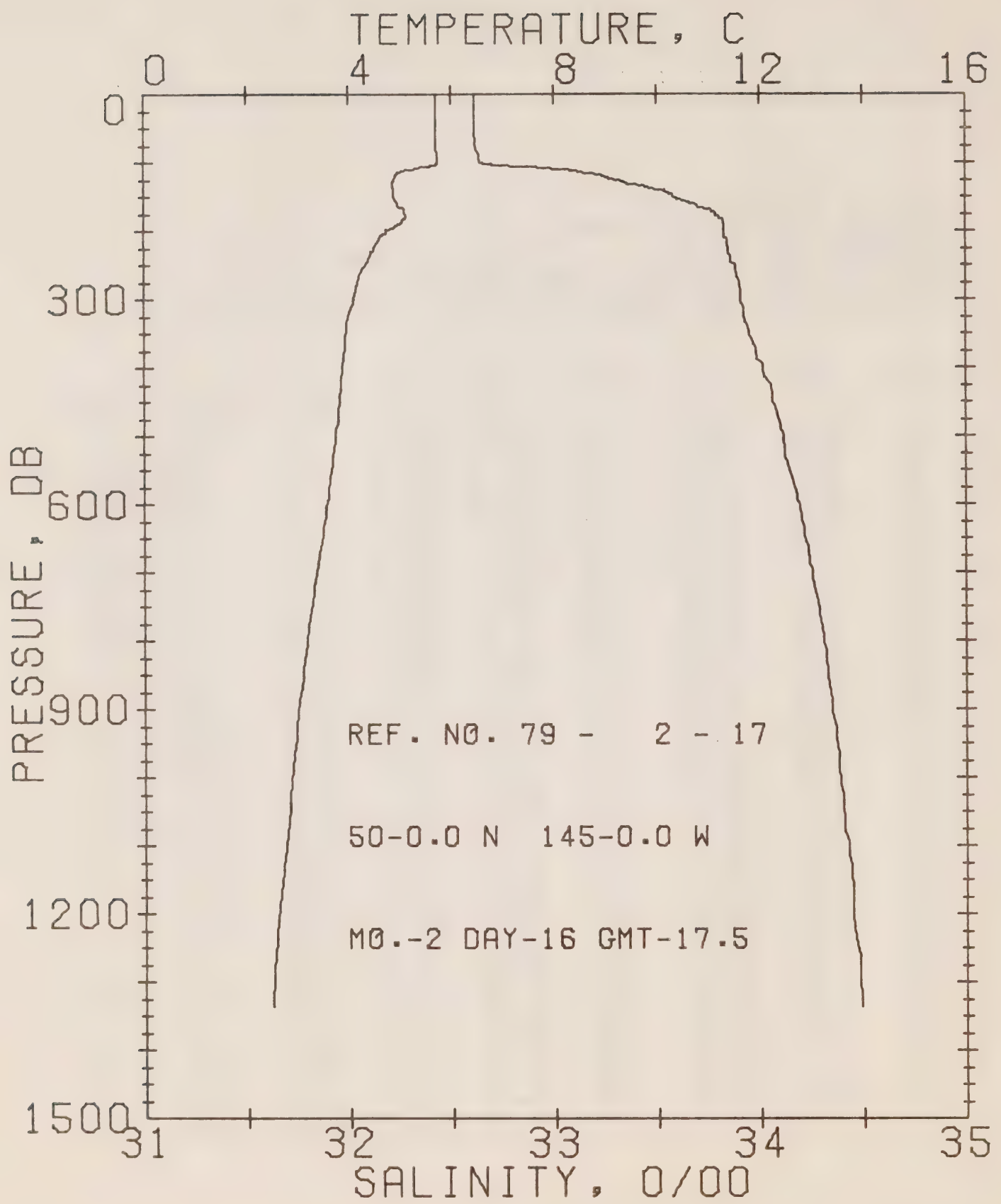
POSITION 50- .0N, 145- .0W GMT 17.5

STATION P

RESULTS OF STP CAST 124 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.71	32.61	0	25.73	227.7	.00	.00	1471.
10	5.71	32.61	10	25.73	227.8	.23	.01	1471.
20	5.71	32.61	20	25.73	227.9	.46	.05	1471.
30	5.70	32.61	30	25.73	227.9	.68	.10	1471.
40	5.71	32.61	40	25.73	228.1	.91	.19	1471.
50	5.71	32.61	50	25.73	228.2	1.14	.29	1472.
60	5.71	32.61	60	25.73	228.3	1.37	.42	1472.
70	5.71	32.62	70	25.73	228.0	1.60	.57	1472.
80	5.71	32.62	79	25.73	227.7	1.82	.74	1472.
90	5.72	32.63	89	25.74	227.2	2.05	.94	1472.
100	5.73	32.65	99	25.75	225.9	2.28	1.16	1473.
110	5.11	33.06	109	26.15	188.4	2.49	1.39	1471.
120	4.91	33.23	119	26.31	173.5	2.67	1.60	1470.
130	4.85	33.35	129	26.41	163.8	2.84	1.81	1470.
140	4.87	33.52	139	26.54	151.6	3.00	2.03	1471.
150	4.88	33.58	149	26.59	147.3	3.15	2.25	1471.
160	4.97	33.66	159	26.64	142.1	3.29	2.48	1472.
170	5.10	33.76	169	26.70	136.8	3.43	2.72	1473.
180	5.11	33.80	179	26.73	133.8	3.57	2.96	1473.
190	4.97	33.83	189	26.77	130.0	3.70	3.21	1472.
200	4.74	33.83	199	26.80	127.6	3.83	3.46	1472.
210	4.59	33.83	209	26.82	126.1	3.95	3.73	1471.
220	4.53	33.84	218	26.83	124.8	4.08	4.00	1471.
230	4.44	33.85	228	26.85	123.1	4.20	4.28	1471.
240	4.39	33.86	238	26.86	121.9	4.33	4.58	1471.
250	4.31	33.88	248	26.89	119.7	4.45	4.88	1471.
260	4.23	33.88	258	26.90	118.5	4.57	5.19	1471.
270	4.18	33.89	268	26.91	117.6	4.68	5.51	1471.
280	4.14	33.90	278	26.92	116.7	4.80	5.84	1471.
290	4.11	33.91	288	26.93	115.7	4.92	6.17	1471.
300	4.10	33.91	298	26.93	115.7	5.03	6.52	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 17

DATE 16/ 2/79

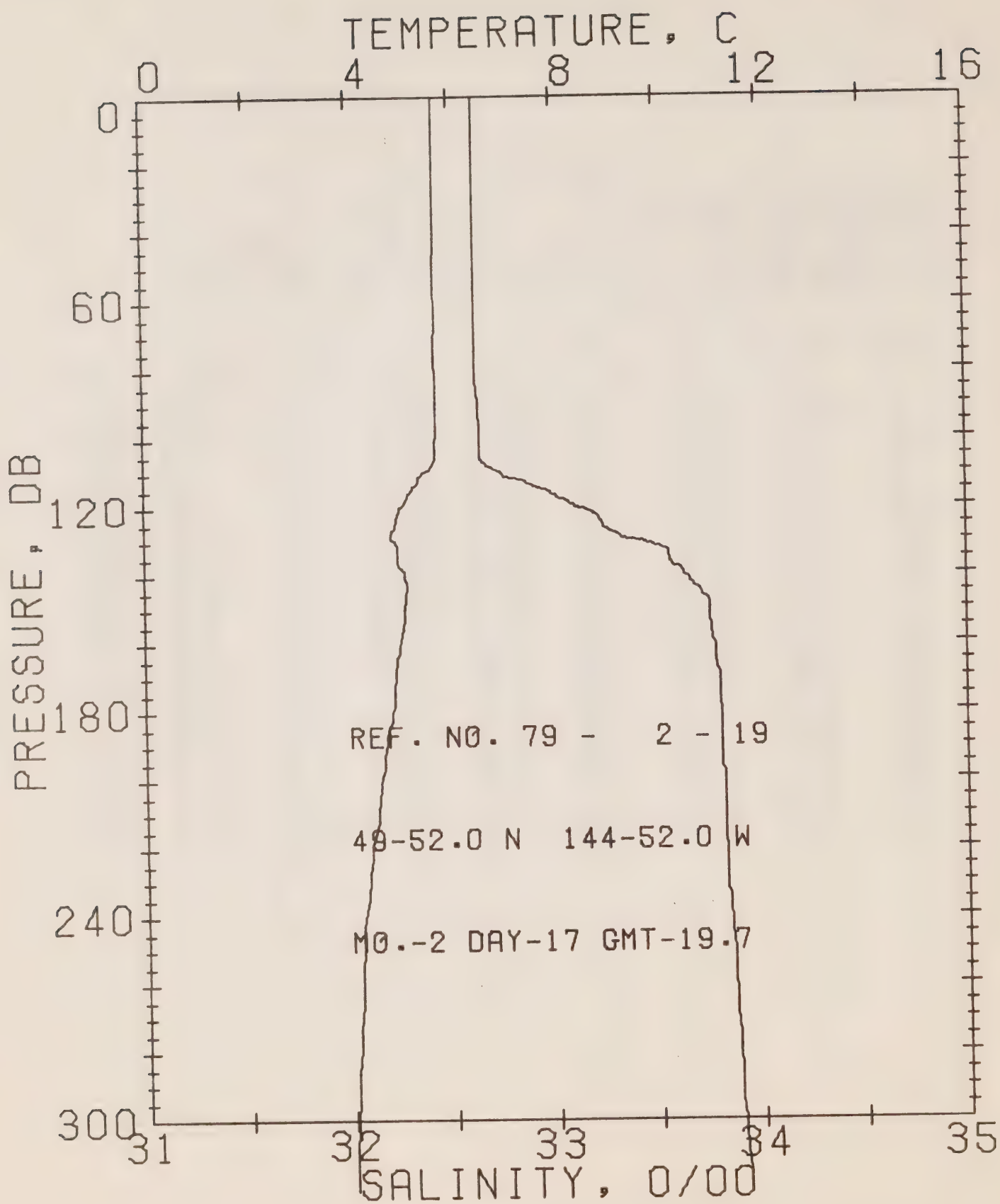
POSITION 50- .0N, 145- .0W GMT 17.5

STATION P

RESULTS OF STP CAST 230 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.71	32.61	0	25.73	227.7	.00	.00	1471.
10	5.71	32.61	10	25.73	227.8	.23	.01	1471.
20	5.71	32.61	20	25.73	227.9	.46	.05	1471.
30	5.70	32.61	30	25.73	227.9	.68	.10	1471.
50	5.71	32.61	50	25.73	228.2	1.14	.29	1472.
75	5.71	32.61	75	25.73	228.3	1.71	.65	1472.
100	5.73	32.65	99	25.75	225.9	2.28	1.16	1473.
125	4.87	33.30	124	26.36	168.2	2.76	1.71	1470.
150	4.88	33.58	149	26.59	147.3	3.15	2.25	1471.
175	5.10	33.78	174	26.72	134.9	3.50	2.83	1473.
200	4.74	33.83	199	26.80	127.6	3.83	3.46	1472.
225	4.47	33.85	223	26.85	123.4	4.14	4.14	1471.
250	4.31	33.88	248	26.89	119.7	4.45	4.88	1471.
300	4.10	33.91	298	26.93	115.7	5.03	6.52	1471.
400	3.87	34.01	397	27.04	106.6	6.15	10.49	1471.
500	3.73	34.11	496	27.13	98.5	7.17	15.18	1473.
600	3.57	34.19	595	27.20	91.9	8.13	20.53	1474.
800	3.16	34.31	793	27.34	79.8	9.84	32.71	1475.
1000	2.87	34.39	990	27.43	72.2	11.35	46.57	1478.
1200	2.60	34.45	1188	27.50	65.7	12.73	61.93	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 19

DATE 17/ 2/79

POSITION 49-52.0N, 144-52.0W

GMT 19.7

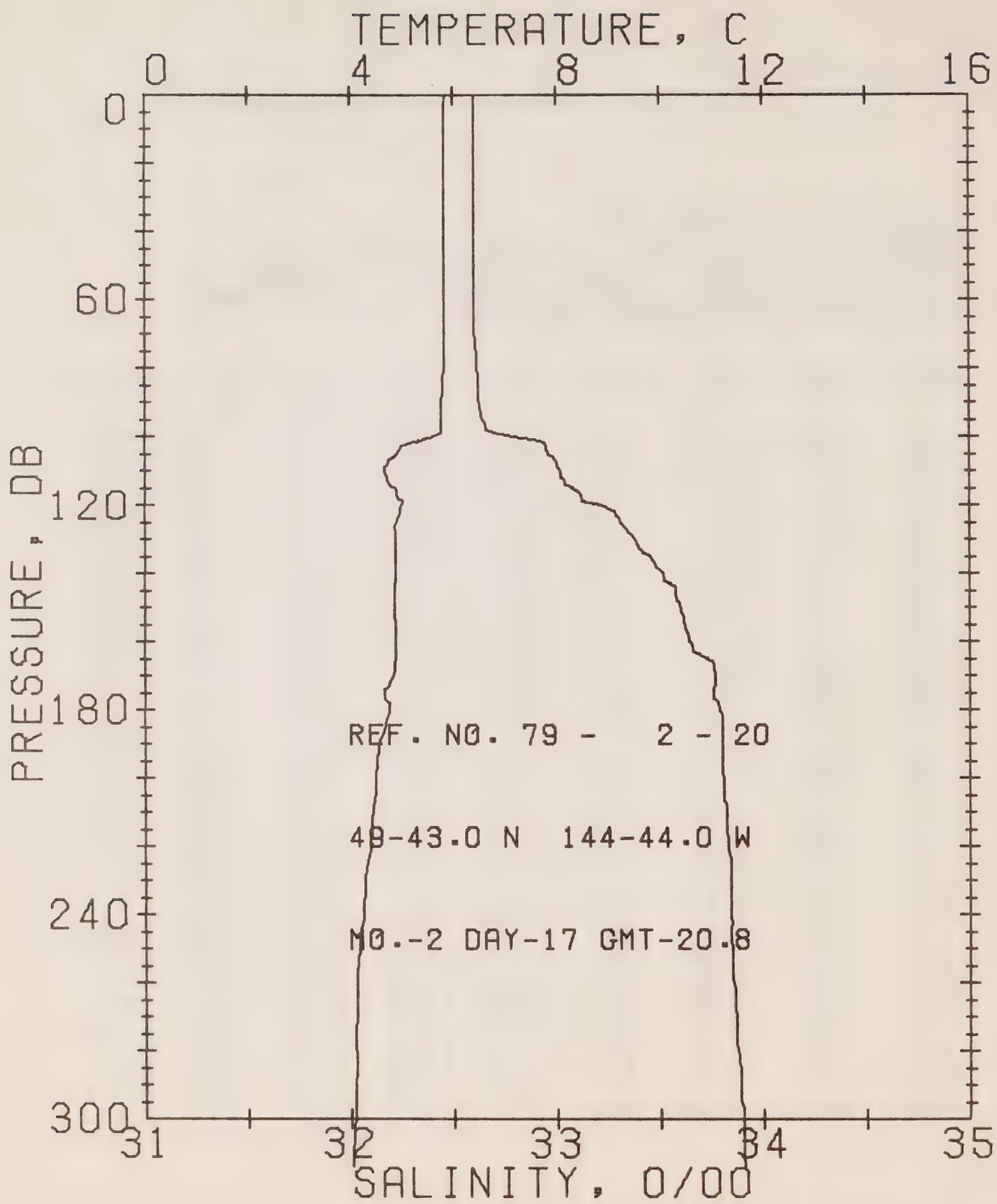
STATION E3

RESULTS OF STP CAST

139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.71	32.62	0	25.73	226.9	.00	.00	1471.
10	5.70	32.62	10	25.73	226.9	.23	.01	1471.
20	5.70	32.62	20	25.73	227.0	.45	.05	1471.
30	5.70	32.62	30	25.73	227.1	.68	.10	1471.
40	5.70	32.62	40	25.73	227.2	.91	.19	1471.
50	5.69	32.62	50	25.74	227.2	1.14	.29	1471.
60	5.70	32.62	60	25.74	227.4	1.36	.42	1472.
70	5.69	32.62	70	25.74	227.5	1.59	.57	1472.
80	5.70	32.62	79	25.74	227.6	1.82	.74	1472.
90	5.70	32.63	89	25.74	227.0	2.04	.94	1472.
100	5.69	32.64	99	25.75	226.3	2.27	1.16	1472.
110	5.44	32.74	109	25.86	216.0	2.50	1.40	1472.
120	4.98	33.10	119	26.20	184.1	2.70	1.63	1470.
130	4.89	33.42	129	26.46	159.2	2.87	1.85	1471.
140	5.07	33.63	139	26.61	145.6	3.02	2.06	1472.
150	5.07	33.75	149	26.70	136.7	3.16	2.26	1472.
160	4.98	33.78	159	26.73	133.9	3.29	2.48	1472.
170	4.87	33.80	169	26.76	131.0	3.43	2.70	1472.
180	4.81	33.81	179	26.78	129.7	3.56	2.93	1472.
190	4.69	33.81	189	26.79	128.4	3.69	3.18	1471.
200	4.57	33.82	199	26.81	126.5	3.81	3.43	1471.
210	4.51	33.82	209	26.82	125.9	3.94	3.70	1471.
220	4.37	33.83	218	26.84	123.8	4.06	3.97	1470.
230	4.32	33.83	228	26.85	123.4	4.19	4.25	1470.
240	4.23	33.85	238	26.87	121.2	4.31	4.55	1470.
250	4.19	33.86	248	26.88	119.9	4.43	4.85	1470.
260	4.17	33.86	258	26.89	119.4	4.55	5.16	1470.
270	4.13	33.87	268	26.90	118.5	4.67	5.48	1470.
280	4.09	33.88	278	26.91	117.6	4.79	5.81	1470.
290	4.06	33.89	288	26.92	116.6	4.90	6.15	1470.
300	4.03	33.90	298	26.93	115.7	5.02	6.50	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 20

DATE 17/ 2/79

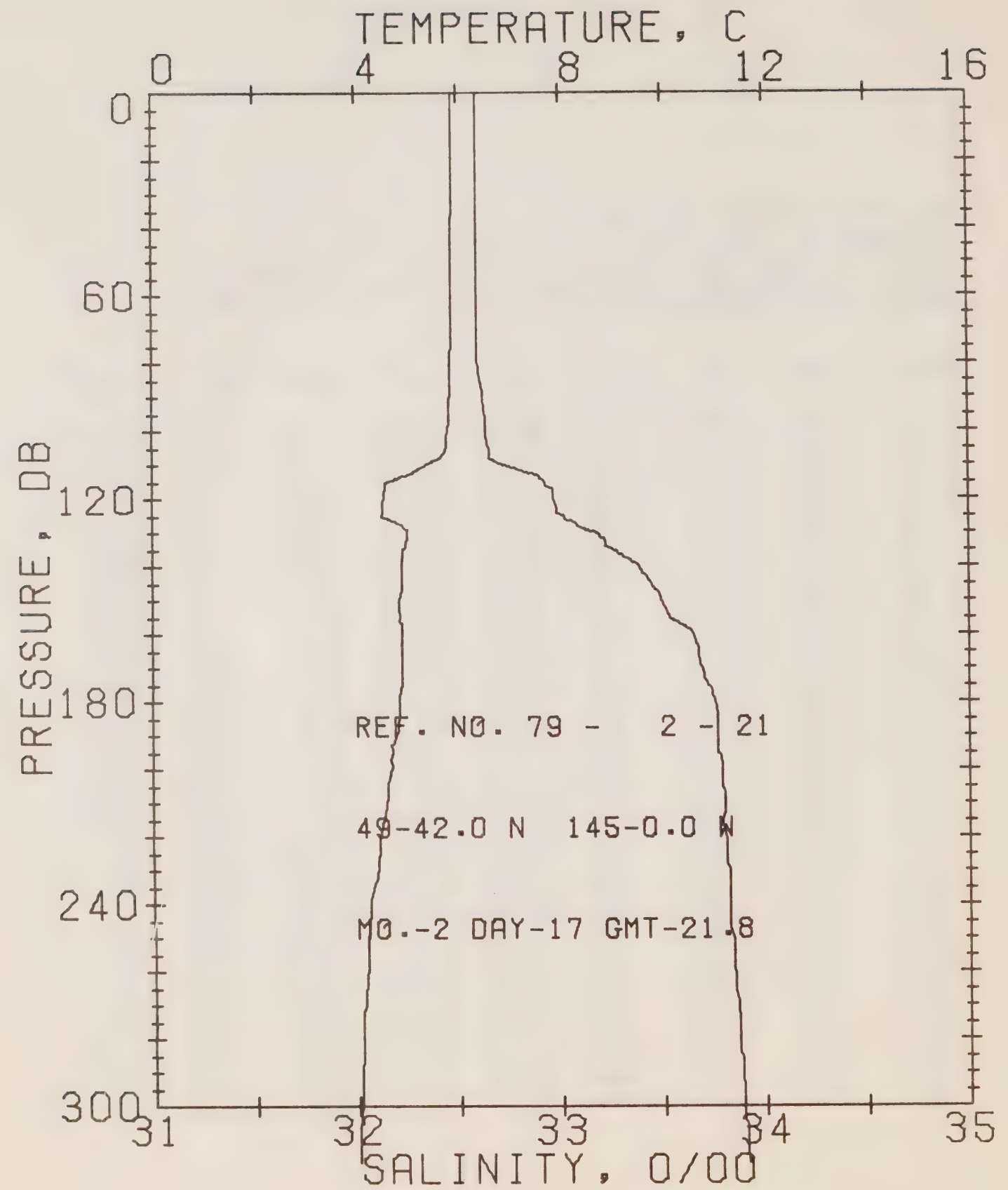
POSITION 49-43.0N, 144-44.0W GMT 20.8

STATION E 4

RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.83	32.60	0	25.70	229.8	.00	.00	1471.
10	5.81	32.60	10	25.71	229.7	.23	.01	1471.
20	5.81	32.60	20	25.71	229.8	.46	.05	1471.
30	5.81	32.60	30	25.71	229.9	.69	.11	1472.
40	5.81	32.60	40	25.71	230.0	.92	.19	1472.
50	5.80	32.60	50	25.71	230.0	1.15	.29	1472.
60	5.80	32.60	60	25.71	230.1	1.38	.42	1472.
70	5.80	32.60	70	25.71	230.1	1.61	.57	1472.
80	5.80	32.61	79	25.72	229.4	1.84	.75	1472.
90	5.77	32.62	89	25.73	228.4	2.07	.95	1472.
100	5.59	32.79	99	25.88	213.9	2.29	1.17	1472.
110	4.68	33.01	109	26.16	187.5	2.49	1.37	1469.
120	4.99	33.21	119	26.28	175.9	2.67	1.59	1471.
130	4.87	33.38	129	26.43	162.0	2.84	1.80	1470.
140	4.88	33.51	139	26.53	152.5	3.00	2.02	1471.
150	4.85	33.59	149	26.60	145.9	3.15	2.24	1471.
160	4.88	33.64	159	26.63	142.9	3.29	2.47	1471.
170	4.83	33.77	169	26.74	132.8	3.43	2.70	1471.
180	4.76	33.79	179	26.77	130.6	3.56	2.93	1471.
190	4.55	33.80	189	26.80	127.6	3.69	3.18	1471.
200	4.48	33.81	199	26.81	126.5	3.82	3.43	1471.
210	4.42	33.82	209	26.83	125.0	3.94	3.69	1470.
220	4.38	33.83	218	26.84	123.8	4.07	3.97	1470.
230	4.27	33.84	228	26.86	122.1	4.19	4.25	1470.
240	4.25	33.84	238	26.86	121.9	4.31	4.54	1470.
250	4.17	33.85	248	26.88	120.5	4.43	4.84	1470.
260	4.11	33.85	258	26.89	119.6	4.55	5.15	1470.
270	4.10	33.87	268	26.90	118.4	4.67	5.48	1470.
280	4.09	33.87	278	26.91	118.1	4.79	5.81	1470.
290	4.08	33.89	288	26.92	116.9	4.91	6.15	1470.
300	4.07	33.90	298	26.93	116.1	5.02	6.50	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 21

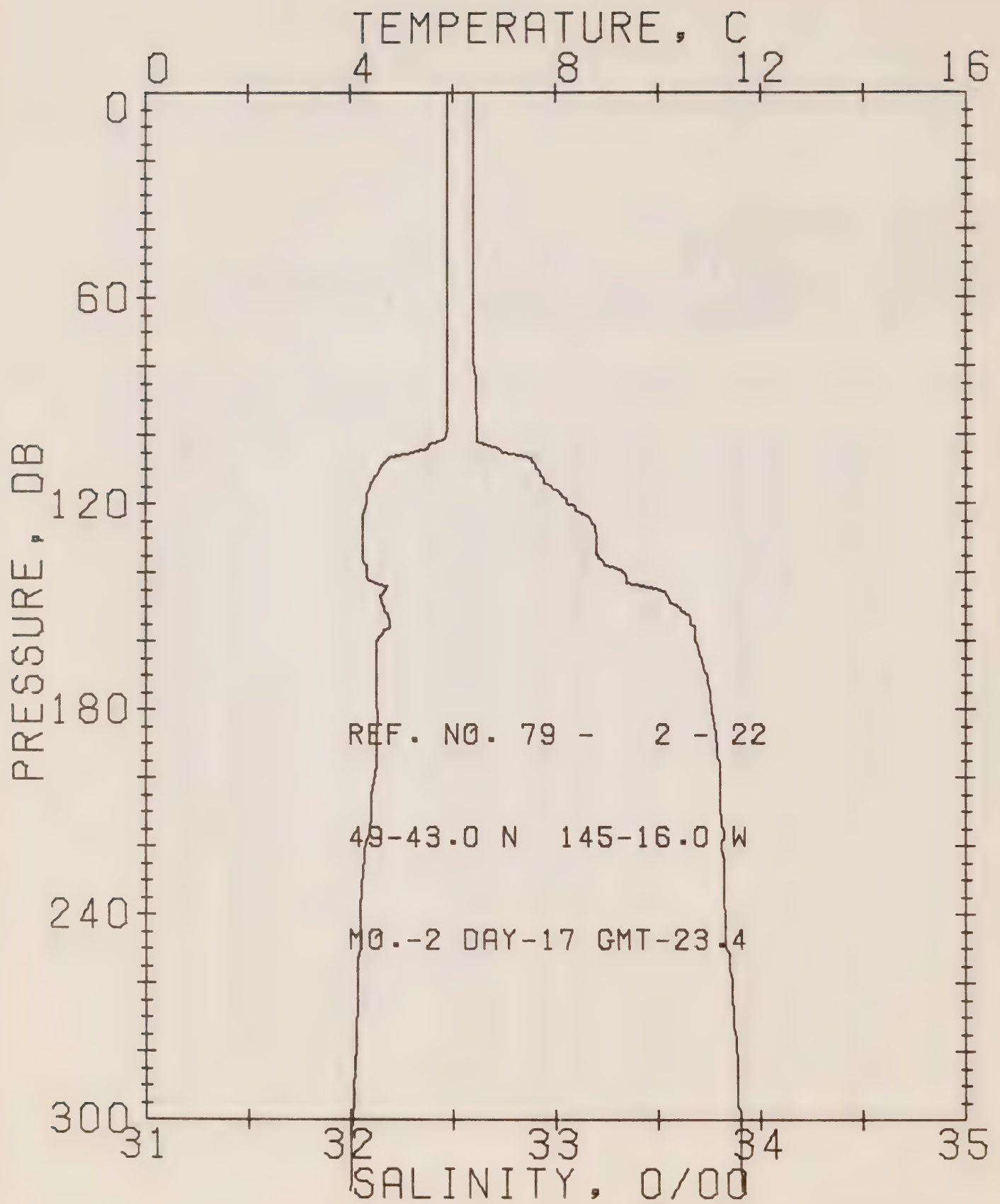
DATE 17/ 2/79

POSITION 49-42.0N, 145- .0W GMT 21.8 STATION C1

RESULTS OF STP CAST 152 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.59	0	25.69	231.2	.00	.00	1471.
10	5.89	32.59	10	25.69	231.3	.23	.01	1472.
20	5.89	32.59	20	25.69	231.4	.46	.05	1472.
30	5.89	32.59	30	25.69	231.5	.69	.11	1472.
40	5.88	32.59	40	25.69	231.5	.93	.19	1472.
50	5.88	32.59	50	25.69	231.6	1.16	.30	1472.
60	5.87	32.59	60	25.69	231.7	1.39	.42	1472.
70	5.87	32.59	70	25.69	231.7	1.62	.58	1473.
80	5.85	32.59	79	25.70	231.3	1.85	.76	1473.
90	5.81	32.62	89	25.72	229.1	2.08	.96	1473.
100	5.78	32.63	99	25.73	228.0	2.31	1.18	1473.
110	5.37	32.72	109	25.85	216.7	2.54	1.42	1471.
120	4.53	32.96	119	26.13	189.8	2.73	1.65	1468.
130	4.99	33.17	129	26.25	179.0	2.92	1.89	1471.
140	4.89	33.38	139	26.43	162.3	3.09	2.12	1471.
150	4.84	33.49	149	26.52	153.6	3.25	2.35	1471.
160	4.88	33.64	159	26.63	142.9	3.40	2.59	1471.
170	4.88	33.68	169	26.67	139.7	3.54	2.83	1472.
180	4.83	33.75	179	26.73	134.4	3.68	3.07	1472.
190	4.75	33.77	189	26.75	132.1	3.81	3.32	1471.
200	4.66	33.79	199	26.78	129.7	3.94	3.58	1471.
210	4.57	33.80	209	26.80	128.1	4.07	3.85	1471.
220	4.45	33.80	218	26.81	126.5	4.20	4.13	1471.
230	4.39	33.82	228	26.83	124.8	4.32	4.42	1471.
240	4.25	33.82	238	26.85	123.5	4.45	4.72	1470.
250	4.20	33.84	248	26.86	121.9	4.57	5.02	1470.
260	4.18	33.84	258	26.87	121.0	4.69	5.34	1470.
270	4.12	33.86	268	26.89	119.4	4.81	5.67	1470.
280	4.07	33.87	278	26.90	118.2	4.93	6.00	1470.
290	4.06	33.88	288	26.91	117.4	5.05	6.34	1470.
300	4.04	33.89	298	26.92	116.5	5.16	6.69	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 22

DATE 17/ 2/79

POSITION 49-43.0N, 145-16.0W

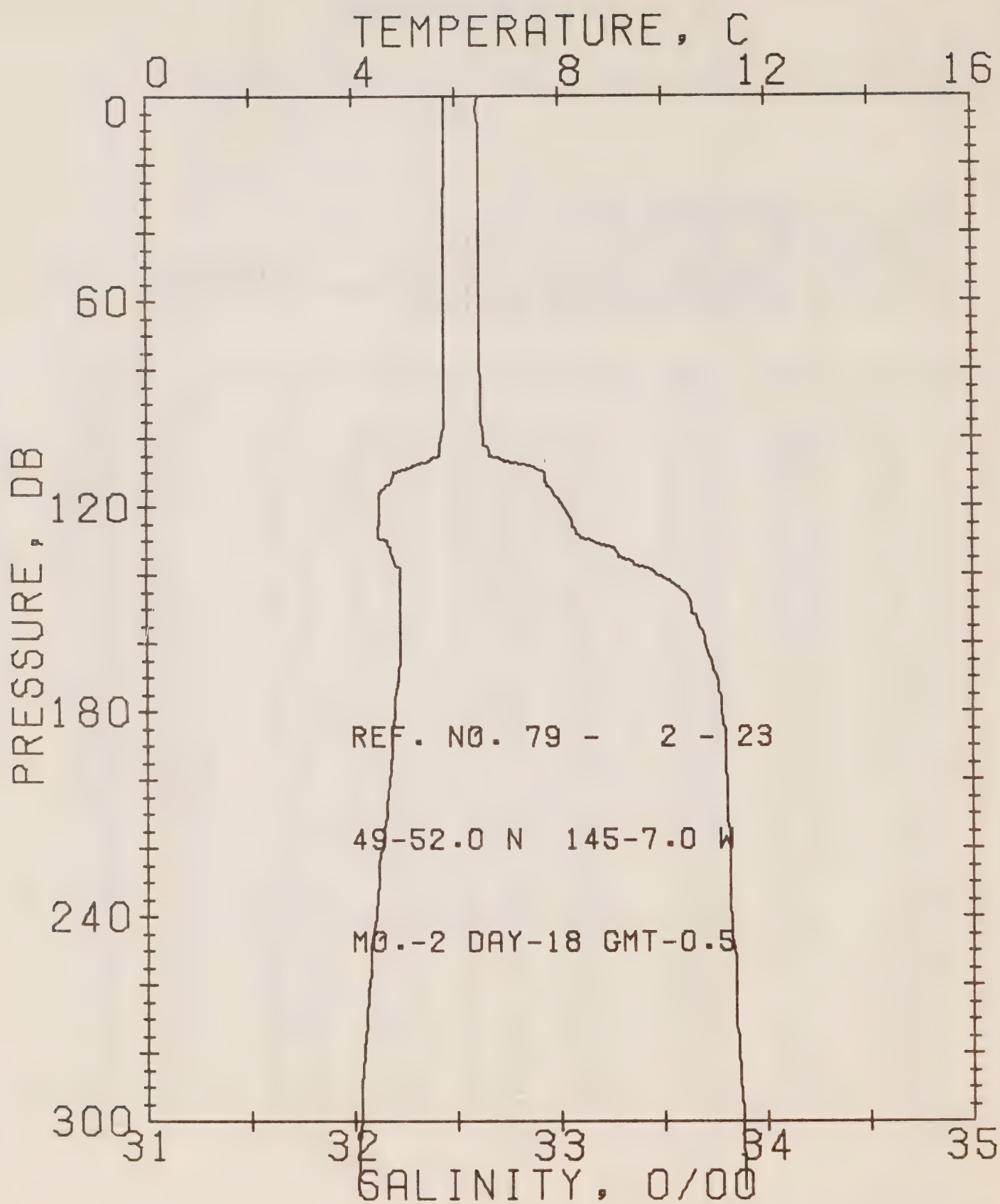
GMT 23.4

STATION W4

RESULTS OF STP CAST 145 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.90	32.60	0	25.69	230.6	.00	.00	1471.
10	5.90	32.60	10	25.69	230.7	.23	.01	1472.
20	5.90	32.60	20	25.69	230.8	.46	.05	1472.
30	5.90	32.60	30	25.69	230.9	.69	.11	1472.
40	5.90	32.60	40	25.69	231.0	.92	.19	1472.
50	5.90	32.60	50	25.69	231.1	1.15	.29	1472.
60	5.90	32.60	60	25.69	231.2	1.39	.42	1472.
70	5.90	32.60	70	25.69	231.3	1.62	.58	1473.
80	5.90	32.60	79	25.70	231.3	1.85	.75	1473.
90	5.90	32.61	89	25.70	230.8	2.08	.95	1473.
100	5.87	32.62	99	25.71	229.8	2.31	1.18	1473.
110	4.55	32.91	109	26.09	193.6	2.52	1.40	1468.
120	4.32	33.05	119	26.23	180.9	2.71	1.62	1468.
130	4.23	33.20	129	26.36	168.8	2.88	1.84	1468.
140	4.32	33.33	139	26.45	160.0	3.05	2.07	1468.
150	4.66	33.59	149	26.62	144.2	3.20	2.30	1470.
160	4.52	33.68	159	26.71	136.1	3.34	2.52	1470.
170	4.52	33.73	169	26.75	132.2	3.47	2.74	1470.
180	4.52	33.76	179	26.77	130.3	3.61	2.98	1470.
190	4.51	33.78	189	26.79	128.4	3.73	3.22	1470.
200	4.47	33.80	199	26.81	126.9	3.86	3.47	1470.
210	4.39	33.80	209	26.81	126.2	3.99	3.74	1470.
220	4.29	33.81	218	26.83	124.4	4.11	4.01	1470.
230	4.22	33.82	228	26.85	123.1	4.24	4.30	1470.
240	4.20	33.83	238	26.86	122.3	4.36	4.59	1470.
250	4.17	33.84	248	26.87	121.5	4.48	4.90	1470.
260	4.13	33.86	258	26.89	119.4	4.60	5.21	1470.
270	4.12	33.87	268	26.90	118.6	4.72	5.53	1470.
280	4.11	33.88	278	26.91	117.8	4.84	5.86	1470.
290	4.05	33.89	288	26.92	116.6	4.96	6.20	1470.
300	4.02	33.90	298	26.93	115.6	5.07	6.55	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 23

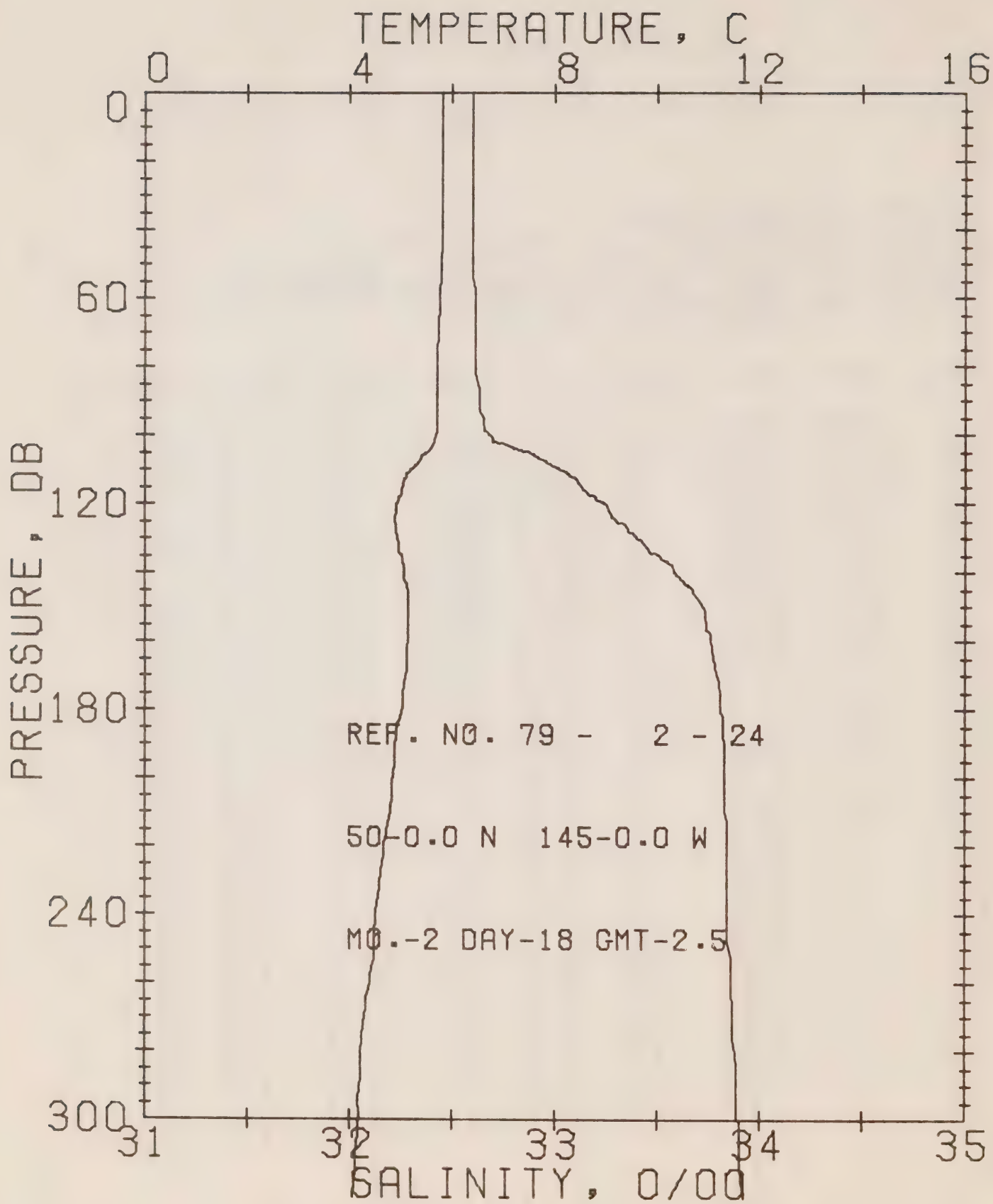
DATE 18/ 2/79

POSITION 49-52.0N, 145- 7.0W GMT .5 STATION W3

RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.79	32.61	0	25.72	228.6	.00	.00	1471.
10	5.79	32.61	10	25.72	228.6	.23	.01	1471.
20	5.78	32.61	20	25.72	228.7	.46	.05	1471.
30	5.77	32.61	30	25.72	228.7	.69	.10	1471.
40	5.76	32.61	40	25.72	228.7	.91	.19	1472.
50	5.75	32.61	50	25.72	228.7	1.14	.29	1472.
60	5.75	32.61	60	25.72	228.7	1.37	.42	1472.
70	5.75	32.61	70	25.72	228.9	1.60	.57	1472.
80	5.75	32.61	79	25.72	228.7	1.83	.75	1472.
90	5.75	32.62	89	25.73	228.3	2.06	.94	1472.
100	5.72	32.63	99	25.74	227.4	2.29	1.16	1472.
110	4.79	32.93	109	26.08	194.7	2.50	1.40	1469.
120	4.51	33.01	119	26.18	185.8	2.70	1.62	1468.
130	4.66	33.15	129	26.27	177.0	2.88	1.85	1469.
140	4.92	33.47	139	26.50	155.9	3.04	2.08	1471.
150	4.92	33.64	149	26.63	143.5	3.19	2.30	1471.
160	4.91	33.70	159	26.68	138.8	3.33	2.52	1472.
170	4.87	33.76	169	26.73	134.0	3.47	2.75	1472.
180	4.80	33.78	179	26.75	131.8	3.60	2.99	1471.
190	4.75	33.80	189	26.78	129.8	3.73	3.23	1471.
200	4.70	33.81	199	26.79	128.6	3.86	3.49	1471.
210	4.63	33.81	209	26.80	128.0	3.99	3.76	1471.
220	4.55	33.82	218	26.81	126.5	4.12	4.04	1471.
230	4.47	33.82	228	26.82	125.7	4.24	4.33	1471.
240	4.42	33.83	238	26.84	124.5	4.37	4.63	1471.
250	4.32	33.84	248	26.86	122.6	4.49	4.94	1471.
260	4.30	33.85	258	26.86	121.9	4.61	5.25	1471.
270	4.25	33.85	268	26.87	121.5	4.73	5.58	1471.
280	4.18	33.86	278	26.88	120.1	4.86	5.92	1471.
290	4.14	33.87	288	26.90	118.8	4.97	6.27	1471.
300	4.12	33.88	298	26.91	118.1	5.09	6.62	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 24

DATE 18/ 2/79

POSITION 50- .0N, 145- .0W

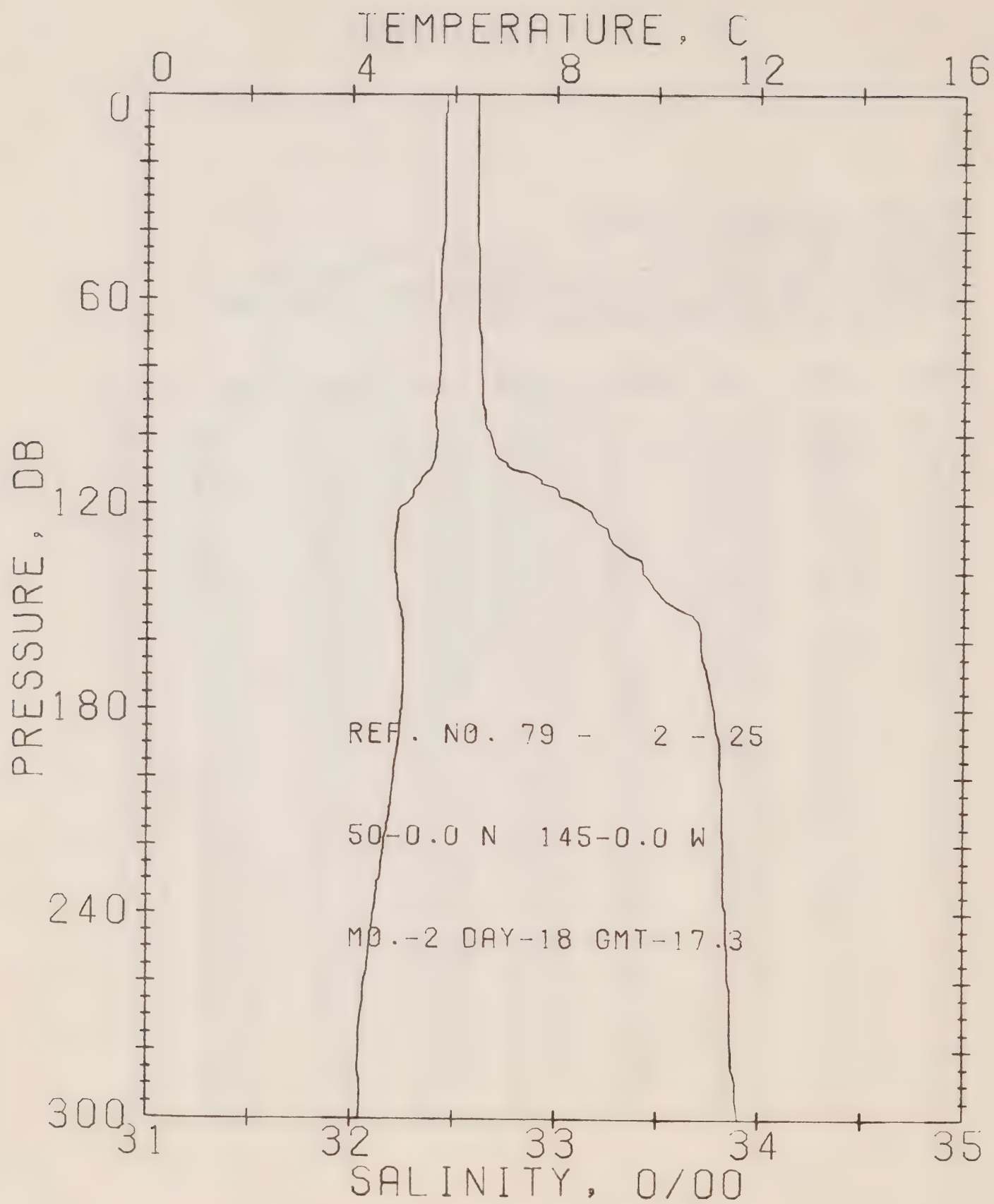
GMT 2.5

STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.82	32.60	0	25.70	229.7	.00	.00	1471.
10	5.82	32.60	10	25.70	229.8	.23	.01	1471.
20	5.82	32.60	20	25.70	229.9	.46	.05	1472.
30	5.82	32.60	30	25.70	230.0	.69	.11	1472.
40	5.81	32.60	40	25.71	229.9	.92	.19	1472.
50	5.79	32.60	50	25.71	229.9	1.15	.29	1472.
60	5.77	32.61	60	25.72	229.0	1.38	.42	1472.
70	5.73	32.61	70	25.72	228.6	1.61	.57	1472.
80	5.71	32.61	79	25.73	228.5	1.84	.75	1472.
90	5.71	32.63	89	25.74	227.1	2.06	.95	1472.
100	5.68	32.68	99	25.78	223.1	2.29	1.16	1472.
110	5.20	33.02	109	26.11	192.4	2.50	1.39	1471.
120	4.91	33.24	119	26.31	172.8	2.68	1.60	1470.
130	4.94	33.40	129	26.44	161.3	2.85	1.81	1471.
140	5.07	33.58	139	26.57	149.3	3.00	2.03	1472.
150	5.15	33.72	149	26.67	139.9	3.15	2.24	1472.
160	5.14	33.76	159	26.70	136.7	3.29	2.46	1473.
170	5.09	33.79	169	26.73	134.2	3.42	2.69	1473.
180	5.02	33.81	179	26.75	132.0	3.55	2.92	1472.
190	4.90	33.83	189	26.78	129.4	3.68	3.17	1472.
200	4.85	33.83	199	26.79	128.8	3.81	3.43	1472.
210	4.80	33.83	209	26.79	128.4	3.94	3.69	1472.
220	4.67	33.84	218	26.82	126.3	4.07	3.97	1472.
230	4.59	33.84	228	26.82	125.5	4.19	4.26	1472.
240	4.51	33.84	238	26.83	124.7	4.32	4.56	1471.
250	4.48	33.85	248	26.84	123.9	4.44	4.87	1471.
260	4.38	33.86	258	26.86	122.1	4.57	5.19	1471.
270	4.29	33.87	268	26.88	120.4	4.69	5.52	1471.
280	4.22	33.88	278	26.89	119.2	4.81	5.85	1471.
290	4.19	33.89	288	26.91	118.0	4.93	6.20	1471.
300	4.18	33.89	298	26.91	118.0	5.04	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 25

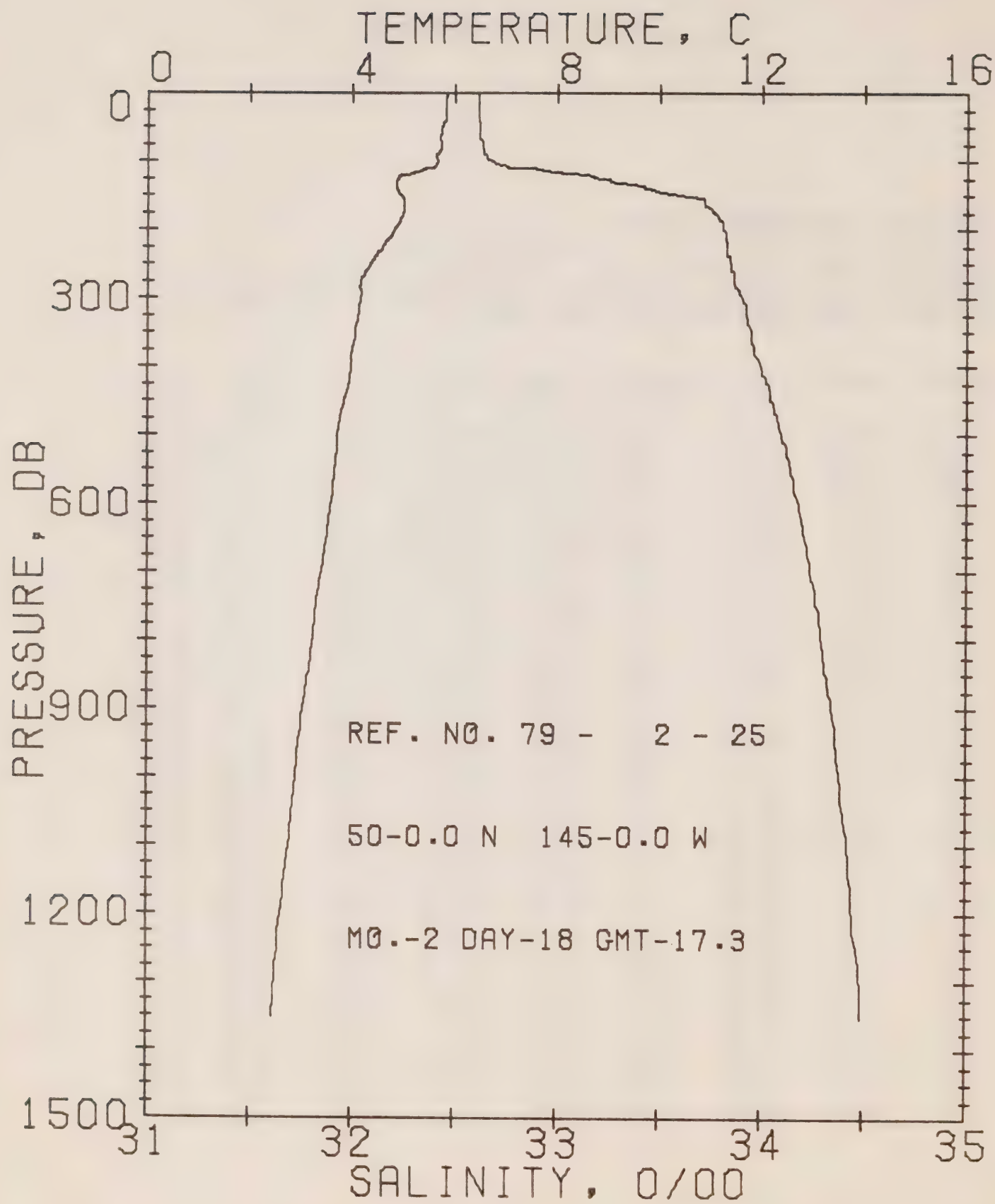
DATE 18/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.85	32.61	0	25.71	229.3	.00	.00	1471.
10	5.81	32.61	10	25.71	228.9	.23	.01	1471.
20	5.80	32.61	20	25.71	228.9	.46	.05	1471.
30	5.80	32.61	30	25.71	229.0	.69	.11	1472.
40	5.80	32.61	40	25.71	229.1	.92	.19	1472.
50	5.74	32.62	50	25.73	227.8	1.14	.29	1472.
60	5.72	32.62	60	25.73	227.6	1.37	.42	1472.
70	5.71	32.62	70	25.74	227.3	1.60	.57	1472.
80	5.72	32.63	79	25.74	227.1	1.83	.74	1472.
90	5.65	32.64	89	25.76	225.7	2.05	.94	1472.
100	5.67	32.68	99	25.79	223.0	2.28	1.16	1472.
110	5.54	32.79	109	25.89	213.4	2.50	1.39	1472.
120	5.06	33.11	119	26.20	184.2	2.70	1.62	1471.
130	4.85	33.27	129	26.35	170.0	2.87	1.85	1470.
140	4.86	33.43	139	26.47	158.2	3.03	2.07	1471.
150	4.96	33.59	149	26.59	147.5	3.19	2.30	1471.
160	5.01	33.71	159	26.68	139.1	3.33	2.52	1472.
170	5.01	33.74	169	26.70	136.7	3.47	2.75	1472.
180	4.98	33.78	179	26.73	133.8	3.60	2.99	1472.
190	4.90	33.81	189	26.77	130.8	3.73	3.24	1472.
200	4.82	33.81	199	26.78	130.0	3.86	3.50	1472.
210	4.75	33.82	209	26.79	128.5	3.99	3.77	1472.
220	4.64	33.83	218	26.81	126.7	4.12	4.05	1472.
230	4.55	33.83	228	26.82	125.8	4.25	4.34	1471.
240	4.44	33.84	238	26.84	124.0	4.37	4.64	1471.
250	4.35	33.85	248	26.86	122.6	4.50	4.95	1471.
260	4.27	33.85	258	26.87	121.3	4.62	5.27	1471.
270	4.20	33.86	268	26.88	120.2	4.74	5.59	1471.
280	4.15	33.87	278	26.89	119.2	4.86	5.93	1471.
290	4.18	33.89	288	26.91	117.9	4.98	6.27	1471.
300	4.17	33.90	298	26.92	117.1	5.09	6.63	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 25

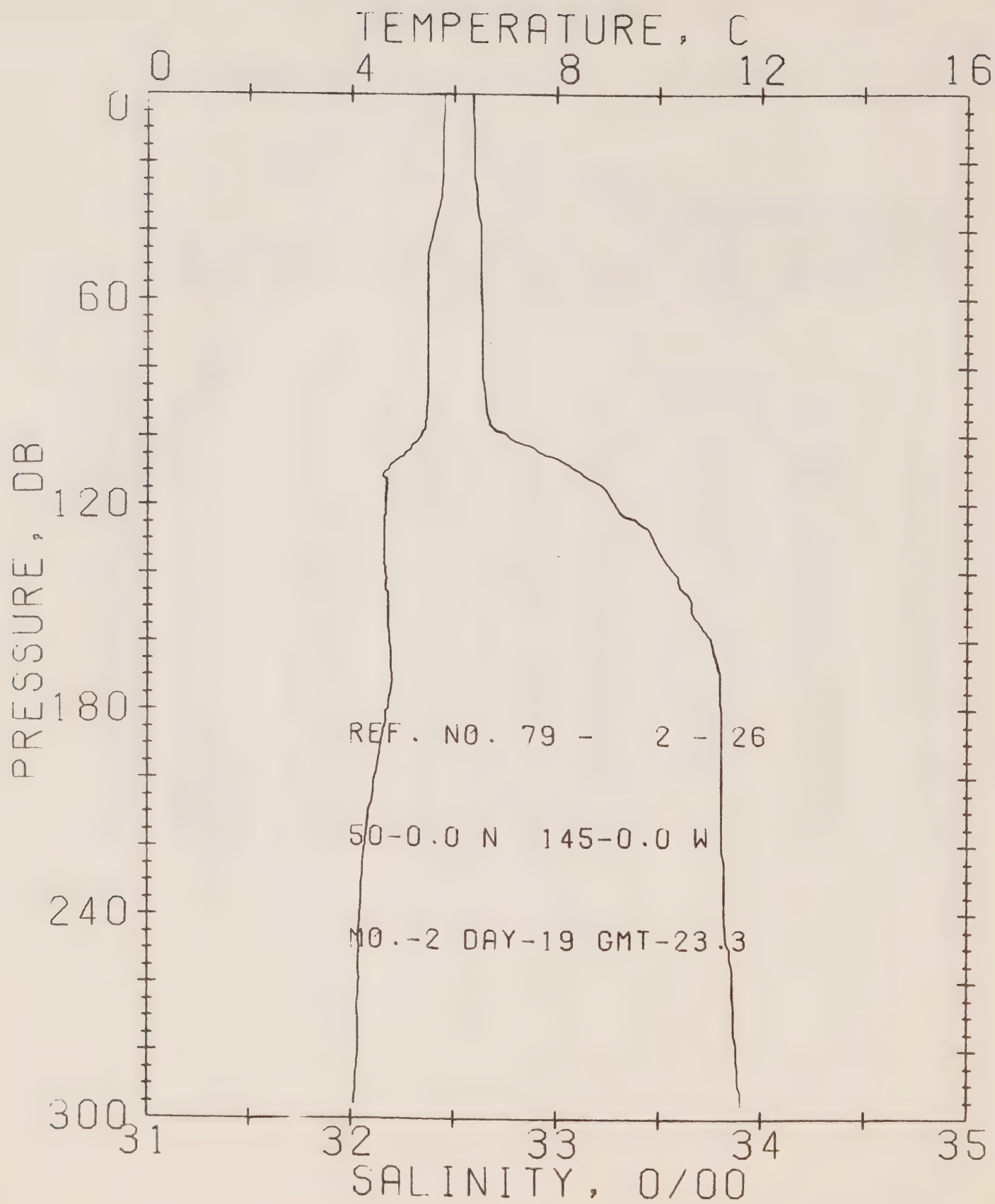
DATE 18/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 291 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.85	32.61	0	25.71	229.3	.00	.00	1471.
10	5.81	32.61	10	25.71	228.9	.23	.01	1471.
20	5.80	32.61	20	25.71	228.9	.46	.05	1471.
30	5.80	32.61	30	25.71	229.0	.69	.11	1472.
50	5.74	32.62	50	25.73	227.8	1.14	.29	1472.
75	5.73	32.63	75	25.74	227.1	1.71	.65	1472.
100	5.67	32.68	99	25.79	223.0	2.28	1.16	1472.
125	4.90	33.20	124	26.28	175.7	2.78	1.74	1470.
150	4.96	33.59	149	26.59	147.5	3.19	2.30	1471.
175	5.00	33.76	174	26.72	135.2	3.53	2.87	1472.
200	4.82	33.81	199	26.78	130.0	3.86	3.50	1472.
225	4.59	33.83	223	26.82	126.2	4.18	4.20	1471.
250	4.35	33.85	248	26.86	122.6	4.50	4.95	1471.
300	4.17	33.90	298	26.92	117.1	5.09	6.63	1471.
400	3.98	33.99	397	27.01	109.0	6.23	10.66	1472.
500	3.72	34.09	496	27.11	99.9	7.27	15.42	1473.
600	3.59	34.18	595	27.19	92.9	8.23	20.82	1474.
800	3.23	34.29	793	27.32	81.7	9.97	33.19	1476.
1000	2.91	34.38	990	27.42	73.0	11.51	47.30	1478.
1200	2.62	34.45	1188	27.50	66.2	12.90	62.83	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 26

DATE 19/ 2/79

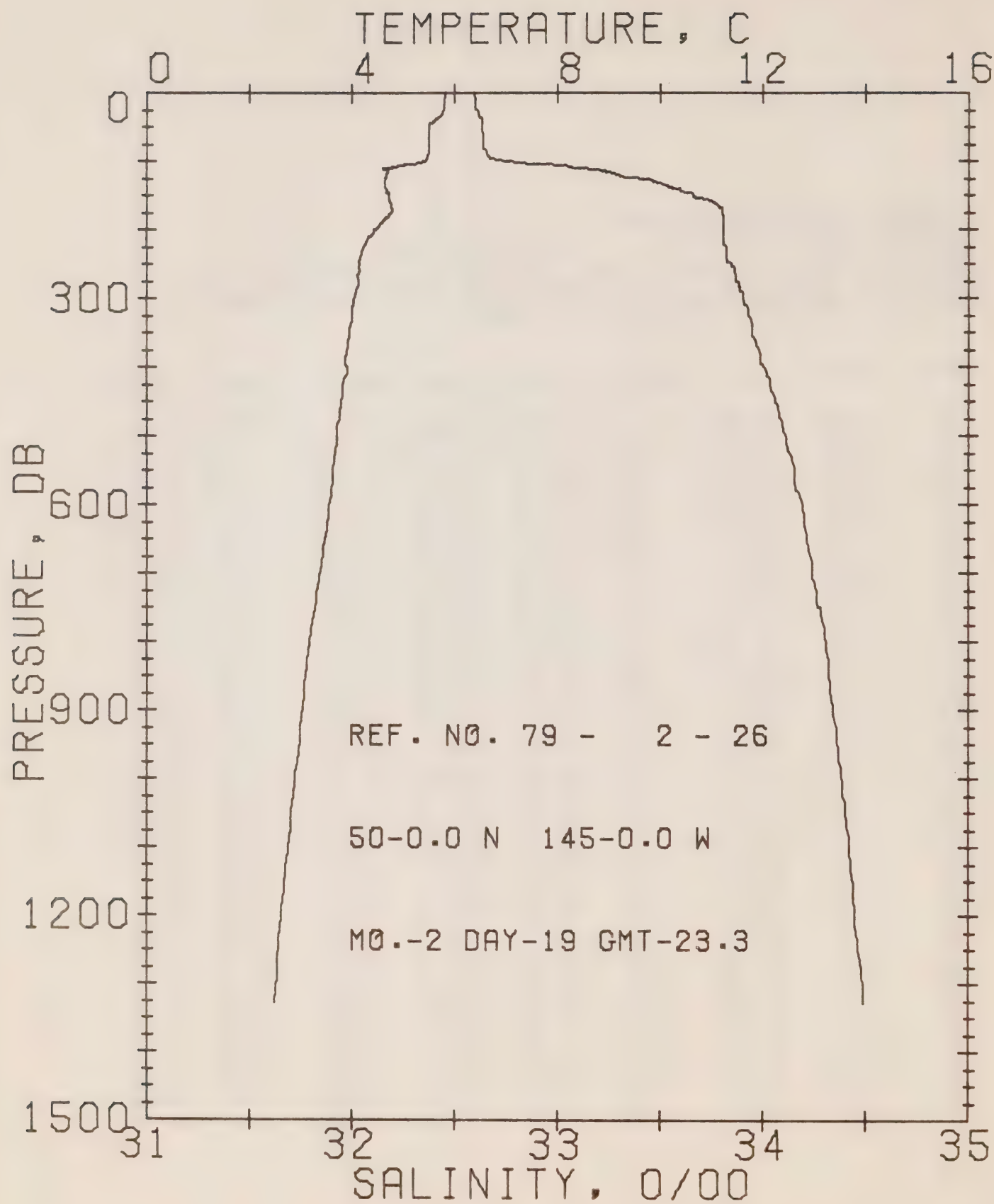
POSITION 50- .0N, 145- .0W GMT 23.3

STATION P

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.80	32.59	0	25.70	230.2	.00	.00	1471.
10	5.79	32.60	10	25.71	229.4	.23	.01	1471.
20	5.79	32.60	20	25.71	229.5	.46	.05	1471.
30	5.76	32.61	30	25.72	228.5	.69	.11	1471.
40	5.59	32.63	40	25.76	225.2	.92	.19	1471.
50	5.49	32.63	50	25.77	224.2	1.14	.29	1471.
60	5.49	32.64	60	25.77	223.9	1.36	.41	1471.
70	5.48	32.64	70	25.78	223.6	1.59	.56	1471.
80	5.48	32.64	79	25.78	223.6	1.81	.73	1471.
90	5.48	32.65	89	25.79	222.6	2.03	.93	1471.
100	5.36	32.77	99	25.89	212.8	2.26	1.14	1471.
110	4.71	33.11	109	26.23	180.3	2.45	1.35	1469.
120	4.68	33.29	119	26.38	166.6	2.62	1.55	1469.
130	4.63	33.48	129	26.53	152.2	2.78	1.75	1470.
140	4.68	33.57	139	26.61	145.4	2.93	1.96	1470.
150	4.71	33.66	149	26.67	139.5	3.07	2.17	1470.
160	4.75	33.76	159	26.74	133.0	3.21	2.38	1471.
170	4.81	33.80	169	26.77	130.3	3.34	2.61	1471.
180	4.71	33.81	179	26.79	128.6	3.47	2.84	1471.
190	4.57	33.81	189	26.80	127.2	3.60	3.08	1471.
200	4.46	33.81	199	26.82	126.0	3.73	3.33	1470.
210	4.33	33.81	208	26.83	124.8	3.85	3.59	1470.
220	4.26	33.81	218	26.84	124.1	3.98	3.86	1470.
230	4.20	33.82	228	26.85	122.9	4.10	4.15	1470.
240	4.16	33.82	238	26.85	122.5	4.22	4.44	1470.
250	4.15	33.85	248	26.88	120.2	4.34	4.75	1470.
260	4.14	33.86	258	26.89	119.5	4.46	5.06	1470.
270	4.12	33.87	268	26.90	118.6	4.58	5.38	1470.
280	4.12	33.88	278	26.91	117.9	4.70	5.71	1470.
290	4.07	33.89	288	26.92	116.8	4.82	6.05	1470.
300	4.03	33.90	298	26.93	115.6	4.93	6.40	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 26

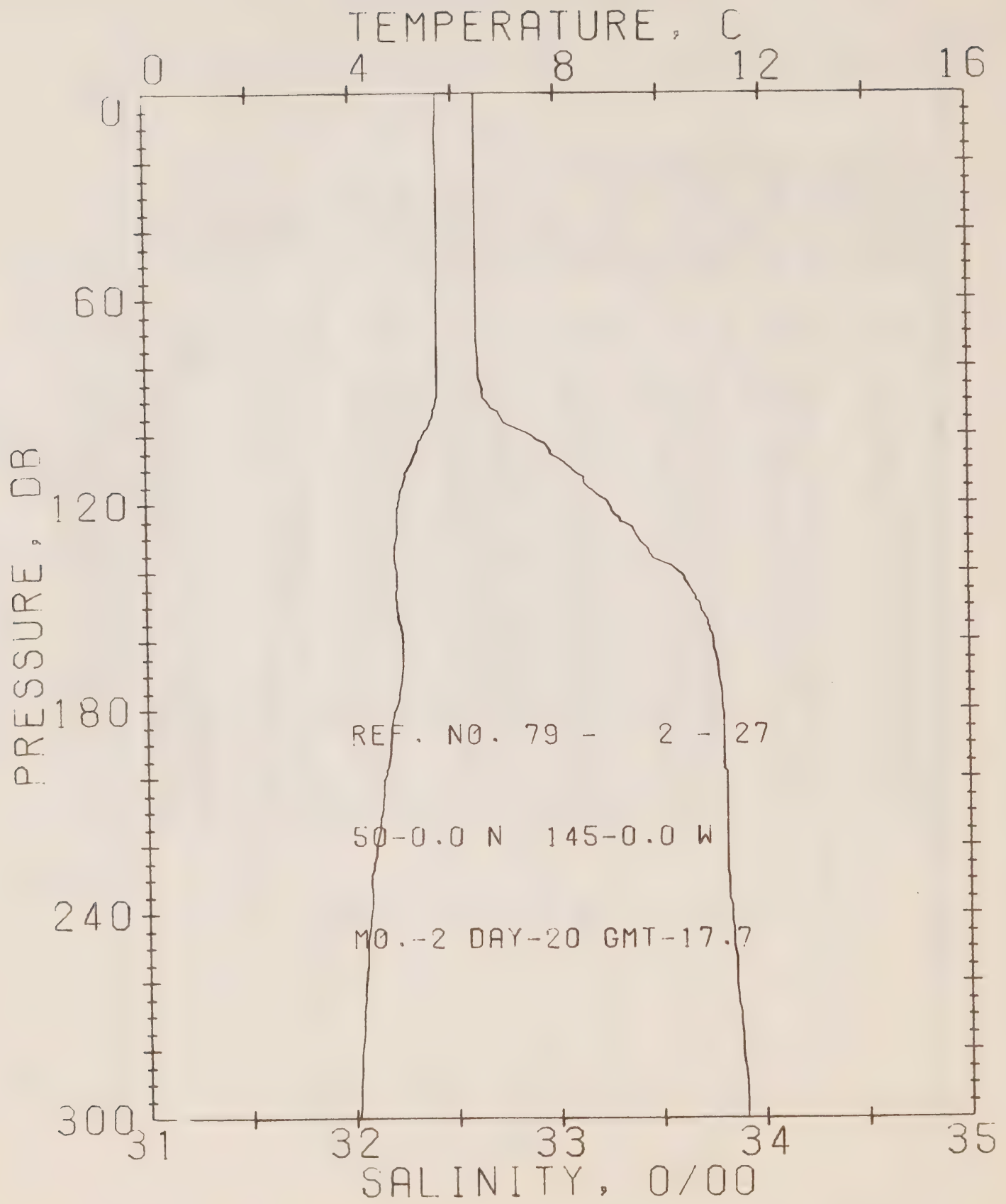
DATE 19/ 2/79

POSITION 50- .0N, 145- .0W GMT 23.3 STATION P

RESULTS OF STP CAST 271 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.80	32.59	0	25.70	230.2	.00	.00	1471.
10	5.79	32.60	10	25.71	229.4	.23	.01	1471.
20	5.79	32.60	20	25.71	229.5	.46	.05	1471.
30	5.76	32.61	30	25.72	228.5	.69	.11	1471.
50	5.49	32.63	50	25.77	224.2	1.14	.29	1471.
75	5.48	32.64	75	25.78	223.6	1.70	.65	1471.
100	5.36	32.77	99	25.89	212.8	2.26	1.14	1471.
125	4.65	33.40	124	26.47	158.1	2.70	1.65	1469.
150	4.71	33.66	149	26.67	139.5	3.07	2.17	1470.
175	4.75	33.80	174	26.78	129.8	3.41	2.72	1471.
200	4.46	33.81	199	26.82	126.0	3.73	3.33	1470.
225	4.22	33.82	223	26.85	123.0	4.04	4.00	1470.
250	4.15	33.85	248	26.88	120.2	4.34	4.75	1470.
300	4.03	33.90	298	26.93	115.6	4.93	6.40	1470.
400	3.91	34.00	397	27.02	107.8	6.05	10.36	1472.
500	3.71	34.11	496	27.13	98.4	7.07	15.06	1473.
600	3.56	34.19	595	27.21	91.8	8.03	20.40	1474.
800	3.17	34.31	793	27.34	80.2	9.75	32.67	1476.
1000	2.88	34.38	990	27.43	72.4	11.28	46.67	1478.
1200	2.62	34.45	1188	27.50	65.8	12.66	62.12	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 27

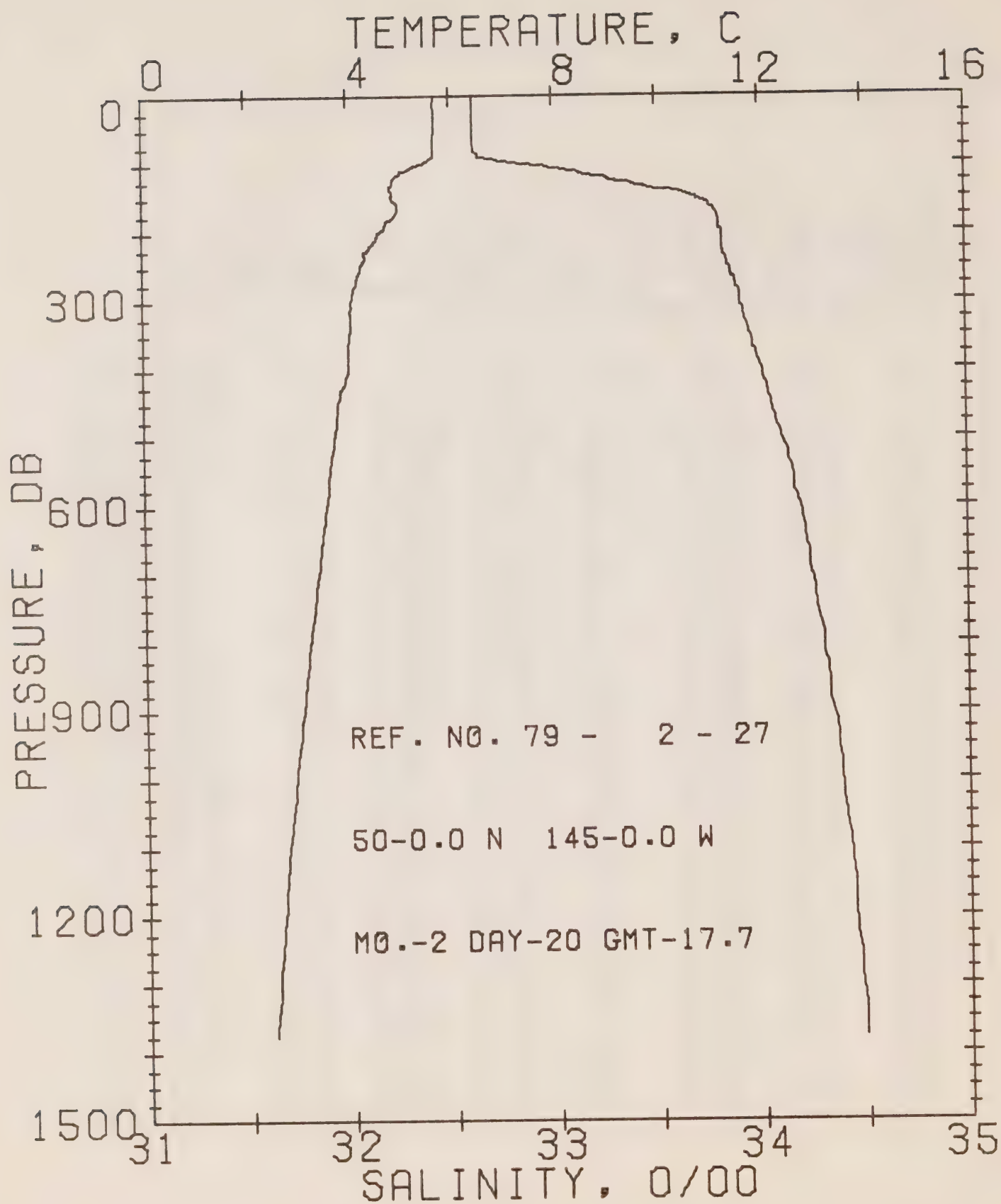
DATE 20/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.70	32.61	0	25.73	227.5	.00	.00	1471.
10	5.69	32.61	10	25.73	227.6	.23	.01	1471.
20	5.70	32.61	20	25.73	227.7	.46	.05	1471.
30	5.70	32.61	30	25.73	227.9	.68	.10	1471.
40	5.70	32.61	40	25.73	228.0	.91	.19	1471.
50	5.70	32.61	50	25.73	228.1	1.14	.29	1472.
60	5.69	32.61	60	25.73	228.1	1.37	.42	1472.
70	5.69	32.61	70	25.73	228.2	1.60	.57	1472.
80	5.69	32.62	79	25.74	227.5	1.82	.74	1472.
90	5.66	32.66	89	25.77	224.3	2.05	.94	1472.
100	5.39	32.88	99	25.98	204.9	2.27	1.15	1471.
110	5.09	33.08	109	26.17	186.7	2.46	1.36	1471.
120	4.92	33.25	119	26.32	172.2	2.64	1.57	1470.
130	4.87	33.40	129	26.45	160.5	2.81	1.78	1470.
140	4.87	33.59	139	26.60	146.4	2.96	1.99	1471.
150	4.87	33.69	149	26.68	138.7	3.10	2.20	1471.
160	4.98	33.76	159	26.72	135.1	3.24	2.42	1472.
170	4.96	33.79	169	26.74	132.9	3.38	2.64	1472.
180	4.84	33.80	179	26.77	130.3	3.51	2.88	1472.
190	4.72	33.81	189	26.79	128.8	3.64	3.12	1471.
200	4.60	33.82	199	26.81	126.8	3.76	3.38	1471.
210	4.54	33.82	208	26.81	126.3	3.89	3.64	1471.
220	4.44	33.82	218	26.83	125.3	4.02	3.92	1471.
230	4.32	33.83	228	26.85	123.4	4.14	4.20	1470.
240	4.32	33.84	238	26.85	122.7	4.26	4.50	1471.
250	4.24	33.85	248	26.87	121.0	4.39	4.80	1470.
260	4.20	33.86	258	26.88	120.2	4.51	5.12	1470.
270	4.17	33.88	268	26.90	118.4	4.63	5.44	1470.
280	4.12	33.89	278	26.91	117.2	4.74	5.77	1470.
290	4.09	33.91	288	26.93	115.6	4.86	6.11	1471.
300	4.06	33.91	298	26.94	115.2	4.98	6.45	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 27

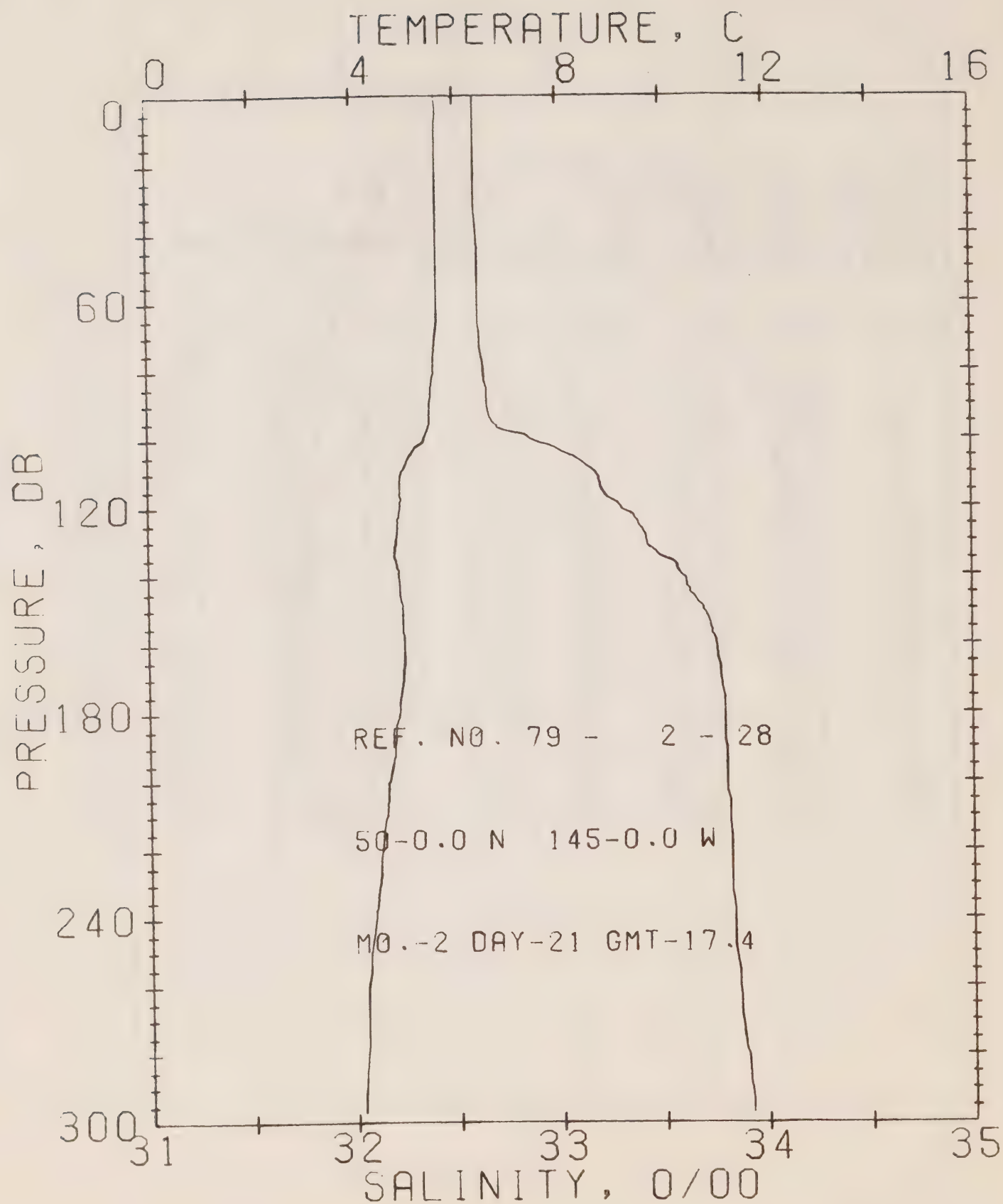
DATE 20/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 261 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.70	32.61	0	25.73	227.5	.00	.00	1471.
10	5.69	32.61	10	25.73	227.6	.23	.01	1471.
20	5.70	32.61	20	25.73	227.7	.46	.05	1471.
30	5.70	32.61	30	25.73	227.9	.68	.10	1471.
50	5.70	32.61	50	25.73	228.1	1.14	.29	1472.
75	5.69	32.62	75	25.73	227.8	1.71	.65	1472.
100	5.39	32.88	99	25.98	204.9	2.27	1.15	1471.
125	4.88	33.31	124	26.37	167.3	2.73	1.68	1470.
150	4.87	33.69	149	26.68	138.7	3.10	2.20	1471.
175	4.92	33.80	174	26.76	131.6	3.44	2.76	1472.
200	4.60	33.82	199	26.81	126.8	3.76	3.38	1471.
225	4.38	33.82	223	26.83	124.7	4.08	4.06	1471.
250	4.24	33.85	248	26.87	121.0	4.39	4.80	1470.
300	4.06	33.91	298	26.94	115.2	4.98	6.45	1471.
400	3.99	34.01	397	27.02	108.1	6.10	10.44	1472.
500	3.72	34.10	496	27.12	99.1	7.13	15.18	1473.
600	3.55	34.19	595	27.21	91.4	8.08	20.50	1474.
800	3.20	34.30	793	27.33	80.9	9.80	32.76	1476.
1000	2.90	34.38	990	27.43	72.7	11.33	46.77	1478.
1200	2.64	34.44	1188	27.50	66.6	12.72	62.26	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 28

DATE 21/ 2/79

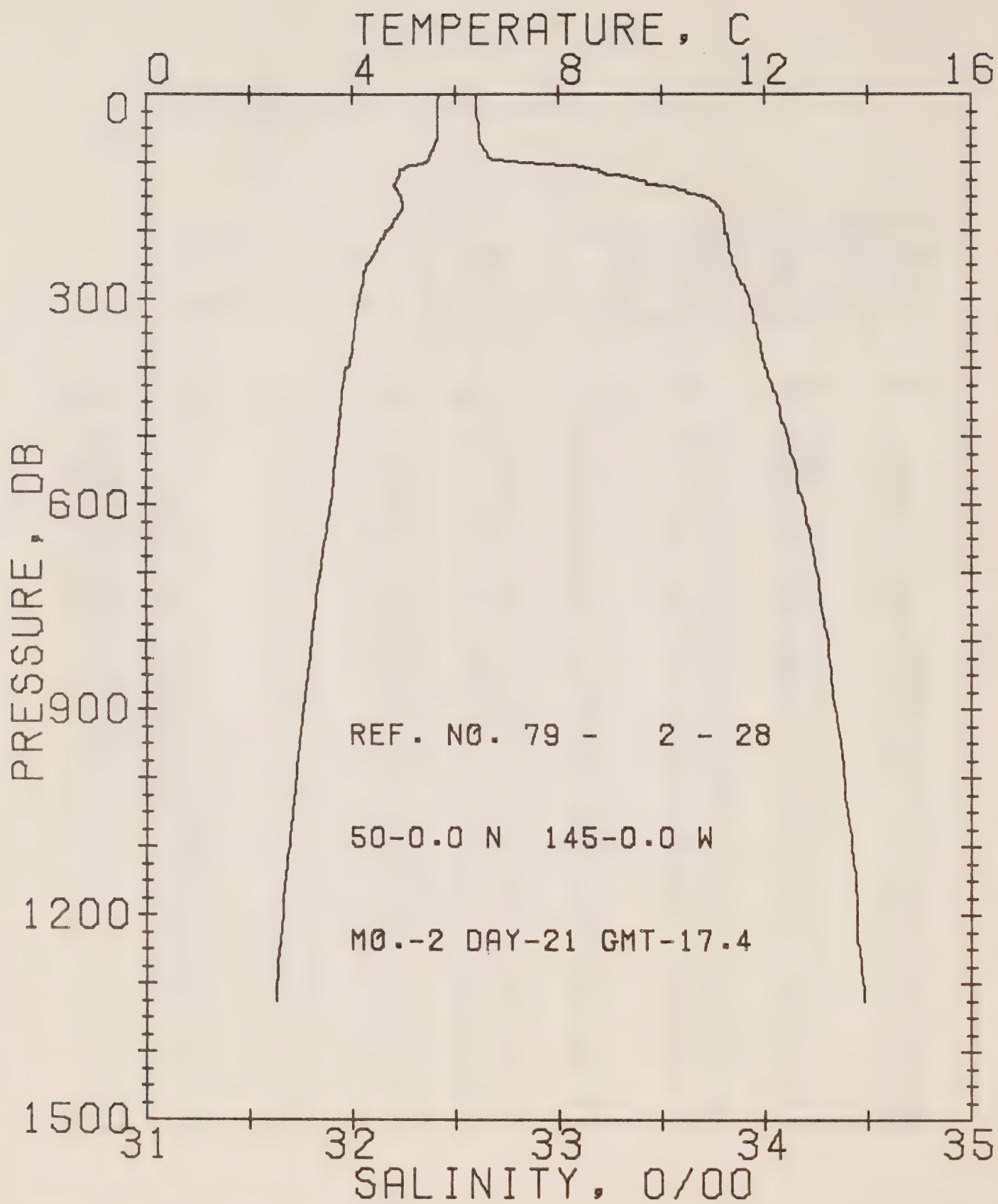
POSITION 50- .0N, 145- .0W GMT 17.4

STATION P

RESULTS OF STP CAST 144 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.60	0	25.72	227.8	.00	.00	1471.
10	5.65	32.60	10	25.72	227.9	.23	.01	1471.
20	5.65	32.60	20	25.72	227.9	.46	.05	1471.
30	5.65	32.60	30	25.72	228.0	.68	.10	1471.
40	5.65	32.61	40	25.73	227.7	.91	.19	1471.
50	5.65	32.61	50	25.73	227.5	1.14	.29	1471.
60	5.65	32.61	60	25.73	227.6	1.37	.42	1471.
70	5.63	32.62	70	25.74	226.7	1.59	.57	1472.
80	5.56	32.64	79	25.76	224.8	1.82	.74	1471.
90	5.50	32.65	89	25.78	223.2	2.04	.94	1471.
100	5.40	32.86	99	25.96	206.5	2.26	1.15	1471.
110	4.94	33.18	109	26.26	177.5	2.45	1.35	1470.
120	4.90	33.30	119	26.36	168.2	2.63	1.55	1470.
130	4.84	33.43	129	26.47	157.9	2.79	1.76	1470.
140	4.87	33.59	139	26.60	146.4	2.94	1.97	1471.
150	4.95	33.70	149	26.67	139.1	3.08	2.18	1472.
160	4.99	33.76	159	26.72	135.0	3.22	2.40	1472.
170	4.96	33.78	169	26.74	133.1	3.35	2.62	1472.
180	4.88	33.80	179	26.76	131.2	3.49	2.86	1472.
190	4.77	33.81	189	26.78	129.3	3.62	3.10	1472.
200	4.67	33.81	199	26.79	128.3	3.74	3.36	1471.
210	4.60	33.82	208	26.81	126.9	3.87	3.62	1471.
220	4.51	33.83	218	26.83	125.3	4.00	3.90	1471.
230	4.45	33.83	228	26.83	124.7	4.12	4.19	1471.
240	4.37	33.84	238	26.85	123.2	4.25	4.48	1471.
250	4.28	33.85	248	26.86	121.9	4.37	4.79	1471.
260	4.22	33.86	258	26.88	120.3	4.49	5.11	1470.
270	4.22	33.87	268	26.89	119.3	4.61	5.43	1471.
280	4.18	33.90	278	26.92	117.1	4.73	5.76	1471.
290	4.15	33.91	288	26.93	115.8	4.85	6.10	1471.
300	4.12	33.93	298	26.94	114.7	4.96	6.45	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 28

DATE 21/ 2/79

POSITION 50- .0N, 145- .0W

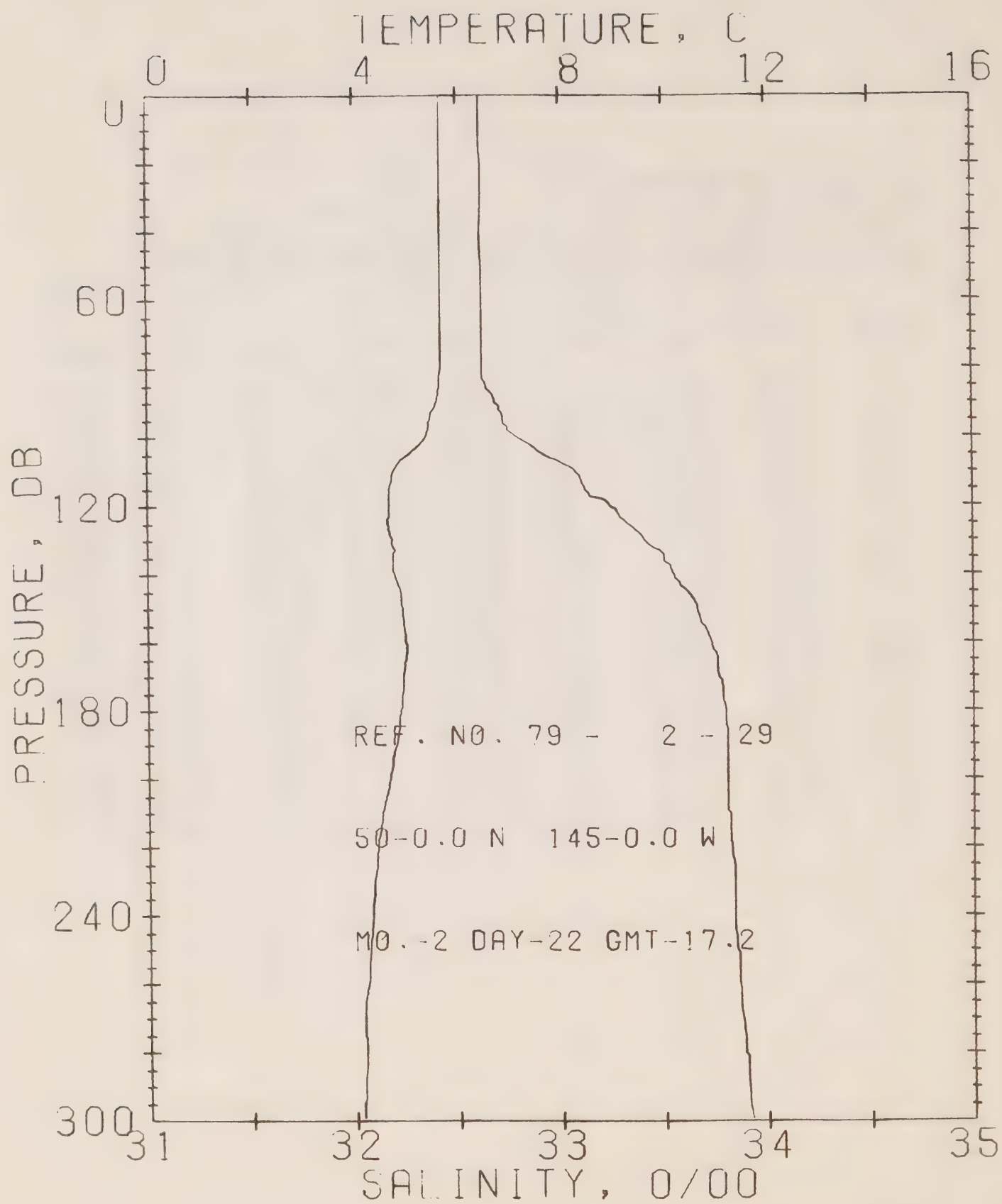
GMT 17.4

STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.60	0	25.72	227.8	.00	.00	1471.
10	5.65	32.60	10	25.72	227.9	.23	.01	1471.
20	5.65	32.60	20	25.72	227.9	.46	.05	1471.
30	5.65	32.60	30	25.72	228.0	.68	.10	1471.
50	5.65	32.61	50	25.73	227.5	1.14	.29	1471.
75	5.58	32.62	75	25.75	225.8	1.71	.65	1471.
100	5.40	32.86	99	25.96	206.5	2.26	1.15	1471.
125	4.86	33.39	124	26.44	161.1	2.71	1.66	1470.
150	4.95	33.70	149	26.67	139.1	3.08	2.18	1472.
175	4.92	33.80	174	26.76	131.6	3.42	2.74	1472.
200	4.67	33.81	199	26.79	128.3	3.74	3.36	1471.
225	4.48	33.83	223	26.83	125.0	4.06	4.04	1471.
250	4.28	33.85	248	26.86	121.9	4.37	4.79	1471.
300	4.12	33.93	298	26.94	114.7	4.96	6.45	1471.
400	3.88	34.00	397	27.03	107.5	6.07	10.41	1472.
500	3.71	34.11	496	27.13	98.6	7.10	15.11	1473.
600	3.56	34.18	595	27.20	92.0	8.05	20.45	1474.
800	3.20	34.31	793	27.34	80.3	9.77	32.67	1476.
1000	2.90	34.38	990	27.43	72.6	11.30	46.68	1478.
1200	2.63	34.45	1188	27.50	66.0	12.68	62.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 29

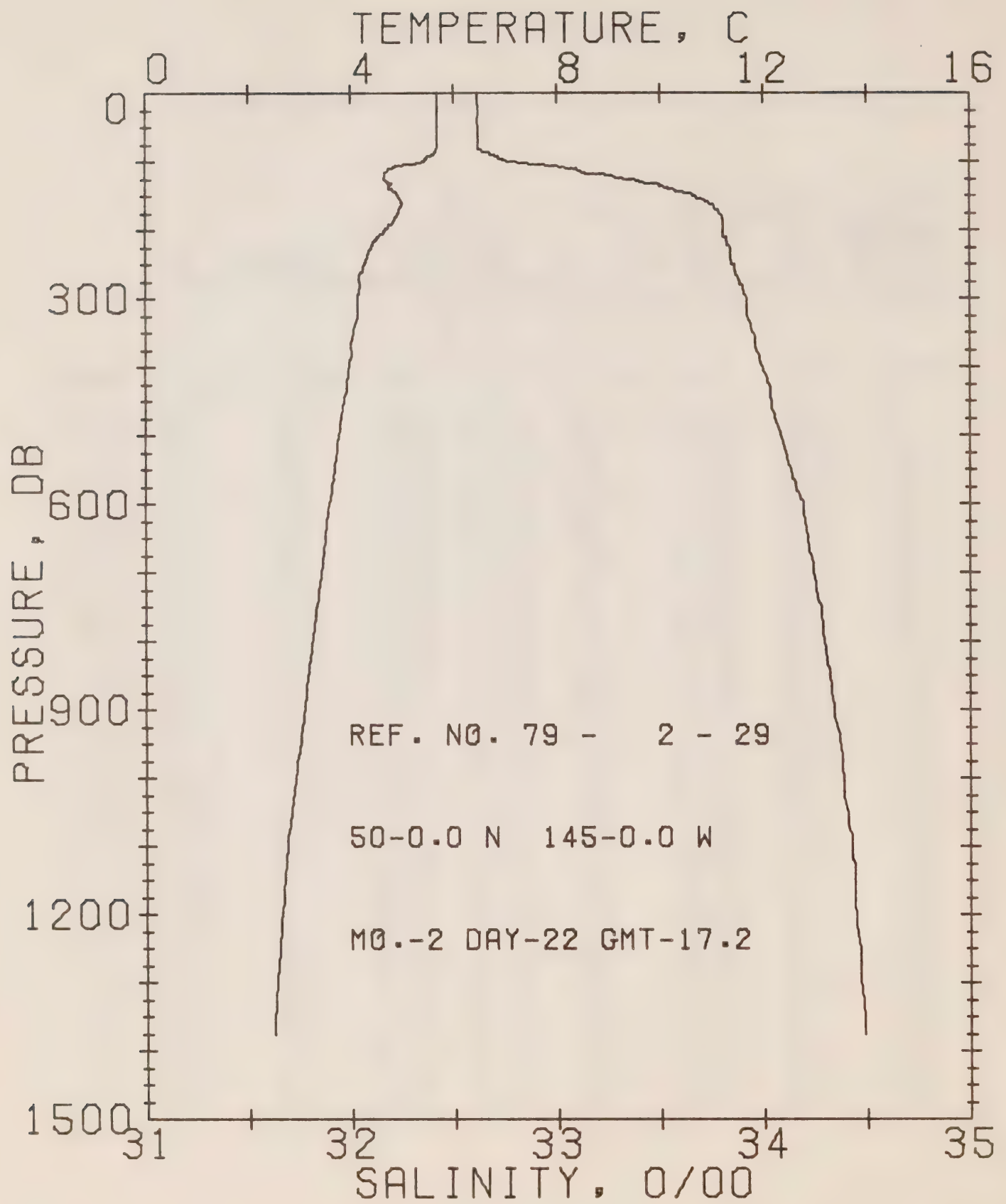
DATE 22/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.69	32.61	0	25.73	227.4	.00	.00	1471.
10	5.69	32.61	10	25.73	227.5	.23	.01	1471.
20	5.69	32.62	20	25.74	226.9	.45	.05	1471.
30	5.69	32.62	30	25.74	227.0	.68	.10	1471.
40	5.69	32.61	40	25.73	227.8	.91	.19	1471.
50	5.69	32.62	50	25.73	227.3	1.14	.29	1471.
60	5.69	32.62	60	25.74	227.3	1.36	.42	1472.
70	5.68	32.62	70	25.74	227.3	1.59	.57	1472.
80	5.68	32.62	79	25.74	227.4	1.82	.74	1472.
90	5.60	32.68	89	25.79	222.1	2.04	.94	1472.
100	5.38	32.79	99	25.91	211.5	2.26	1.15	1471.
110	4.75	33.07	109	26.20	183.7	2.46	1.36	1469.
120	4.66	33.24	119	26.34	170.1	2.64	1.57	1469.
130	4.74	33.41	129	26.47	158.3	2.80	1.78	1470.
140	4.77	33.55	139	26.57	148.7	2.95	1.98	1470.
150	4.93	33.66	149	26.64	141.9	3.10	2.20	1471.
160	4.99	33.73	159	26.69	137.4	3.24	2.42	1472.
170	4.93	33.77	169	26.73	133.9	3.37	2.65	1472.
180	4.88	33.80	179	26.76	131.2	3.51	2.88	1472.
190	4.81	33.81	189	26.78	129.8	3.64	3.13	1472.
200	4.66	33.81	199	26.79	128.2	3.76	3.39	1471.
210	4.52	33.82	208	26.82	126.0	3.89	3.65	1471.
220	4.43	33.83	218	26.83	124.4	4.02	3.93	1471.
230	4.35	33.84	228	26.85	122.9	4.14	4.21	1471.
240	4.32	33.84	238	26.85	122.7	4.26	4.51	1471.
250	4.28	33.86	248	26.87	121.2	4.39	4.81	1471.
260	4.22	33.86	258	26.88	119.9	4.51	5.12	1470.
270	4.16	33.88	268	26.90	118.5	4.63	5.45	1470.
280	4.18	33.89	278	26.91	117.8	4.74	5.78	1471.
290	4.16	33.91	288	26.92	116.4	4.86	6.12	1471.
300	4.13	33.92	298	26.94	115.2	4.98	6.46	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 29

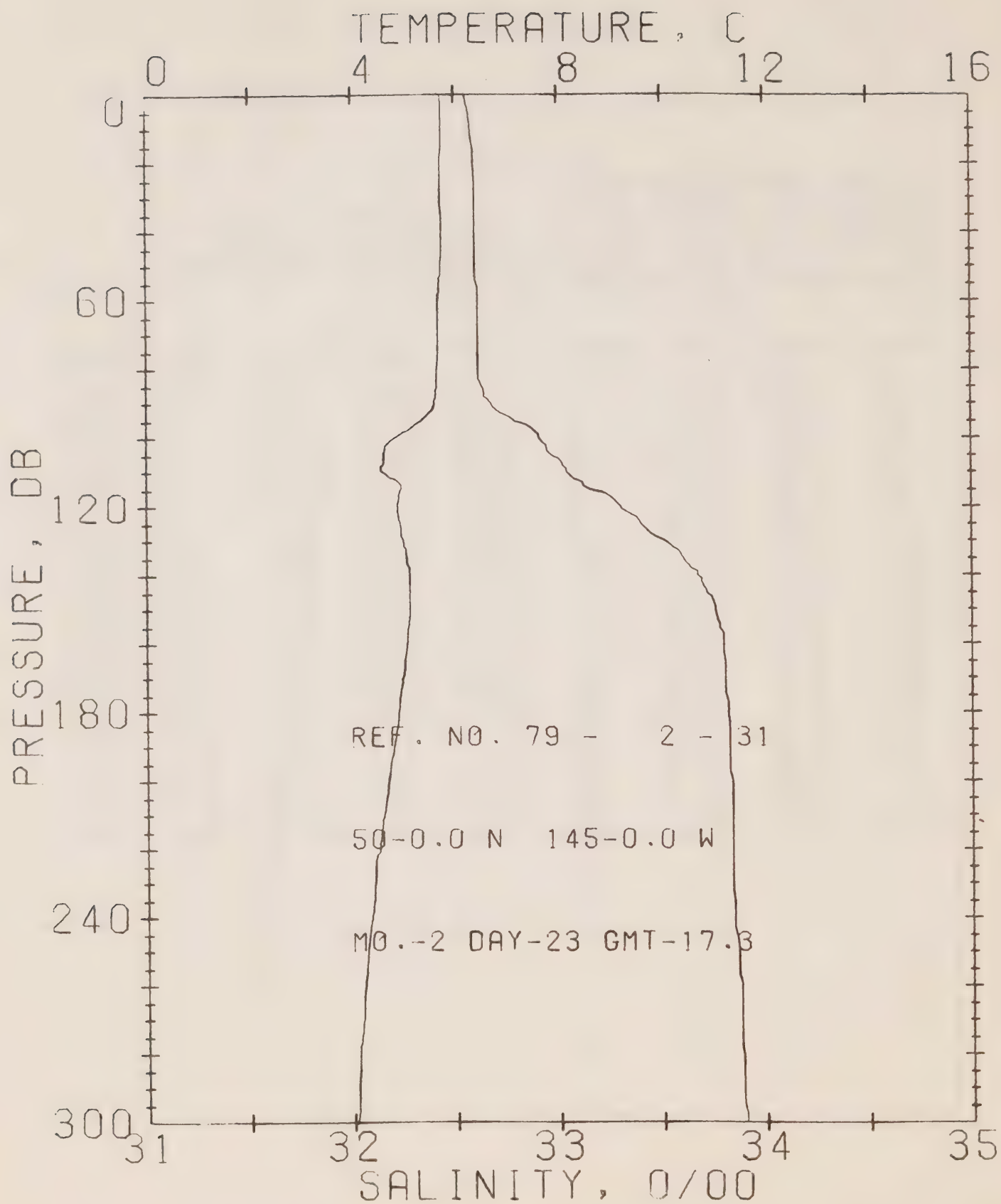
DATE 22/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 296 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.69	32.61	0	25.73	227.4	.00	.00	1471.
10	5.69	32.61	10	25.73	227.5	.23	.01	1471.
20	5.69	32.62	20	25.74	226.9	.45	.05	1471.
30	5.69	32.62	30	25.74	227.0	.68	.10	1471.
50	5.69	32.62	50	25.73	227.3	1.14	.29	1471.
75	5.68	32.62	75	25.74	227.4	1.71	.65	1472.
100	5.38	32.79	99	25.91	211.5	2.26	1.15	1471.
125	4.65	33.33	124	26.41	163.3	2.72	1.67	1469.
150	4.93	33.66	149	26.64	141.9	3.10	2.20	1471.
175	4.93	33.79	174	26.75	132.4	3.44	2.76	1472.
200	4.66	33.81	199	26.79	128.2	3.76	3.39	1471.
225	4.40	33.84	223	26.85	123.4	4.08	4.07	1471.
250	4.28	33.86	248	26.87	121.2	4.39	4.81	1471.
300	4.13	33.92	298	26.94	115.2	4.98	6.46	1471.
400	3.97	33.99	397	27.01	108.8	6.10	10.48	1472.
500	3.76	34.08	496	27.10	101.0	7.15	15.29	1473.
600	3.58	34.19	595	27.21	91.6	8.12	20.71	1474.
800	3.24	34.30	793	27.32	81.6	9.86	33.05	1476.
1000	2.90	34.39	990	27.43	72.2	11.40	47.14	1478.
1200	2.63	34.45	1188	27.50	66.3	12.77	62.56	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 31

DATE 23/ 2/79

POSITION 50- .0N, 145- .0W

GMT 17.3

STATION P

RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.73	32.55	0	25.68	232.4	.00	.00	1471.
10	5.75	32.58	10	25.70	230.5	.23	.01	1471.
20	5.74	32.59	20	25.71	229.6	.46	.05	1471.
30	5.74	32.60	30	25.71	229.1	.69	.11	1471.
40	5.75	32.60	40	25.71	229.3	.92	.19	1472.
50	5.74	32.60	50	25.71	229.3	1.15	.29	1472.
60	5.68	32.61	60	25.73	227.9	1.38	.42	1472.
70	5.67	32.61	70	25.73	227.9	1.61	.57	1472.
80	5.66	32.61	79	25.73	227.9	1.83	.75	1472.
90	5.60	32.67	89	25.79	222.9	2.06	.94	1472.
100	4.87	32.91	99	26.06	196.9	2.27	1.15	1469.
110	4.56	33.04	109	26.19	184.0	2.46	1.35	1468.
120	4.89	33.30	119	26.36	168.1	2.64	1.56	1470.
130	4.98	33.51	129	26.52	153.5	2.80	1.76	1471.
140	5.12	33.67	139	26.63	143.2	2.95	1.96	1472.
150	5.13	33.76	149	26.70	136.6	3.09	2.17	1472.
160	5.06	33.80	159	26.74	133.0	3.22	2.38	1472.
170	4.98	33.81	169	26.76	131.4	3.35	2.61	1472.
180	4.89	33.82	179	26.78	129.8	3.48	2.84	1472.
190	4.80	33.83	189	26.79	128.2	3.61	3.08	1472.
200	4.69	33.84	199	26.81	126.3	3.74	3.33	1471.
210	4.60	33.84	208	26.82	125.4	3.87	3.60	1471.
220	4.50	33.84	218	26.83	124.5	3.99	3.87	1471.
230	4.42	33.84	228	26.84	123.6	4.11	4.16	1471.
240	4.35	33.85	238	26.86	122.3	4.24	4.45	1471.
250	4.27	33.87	248	26.88	120.0	4.36	4.75	1471.
260	4.22	33.88	258	26.90	118.8	4.48	5.06	1470.
270	4.18	33.88	268	26.90	118.5	4.60	5.38	1471.
280	4.11	33.89	278	26.92	117.1	4.71	5.71	1470.
290	4.08	33.89	288	26.92	116.9	4.83	6.05	1470.
300	4.06	33.90	298	26.93	116.0	4.95	6.40	1471.

OFFSHORE OCEANOGRAPHY GROUP

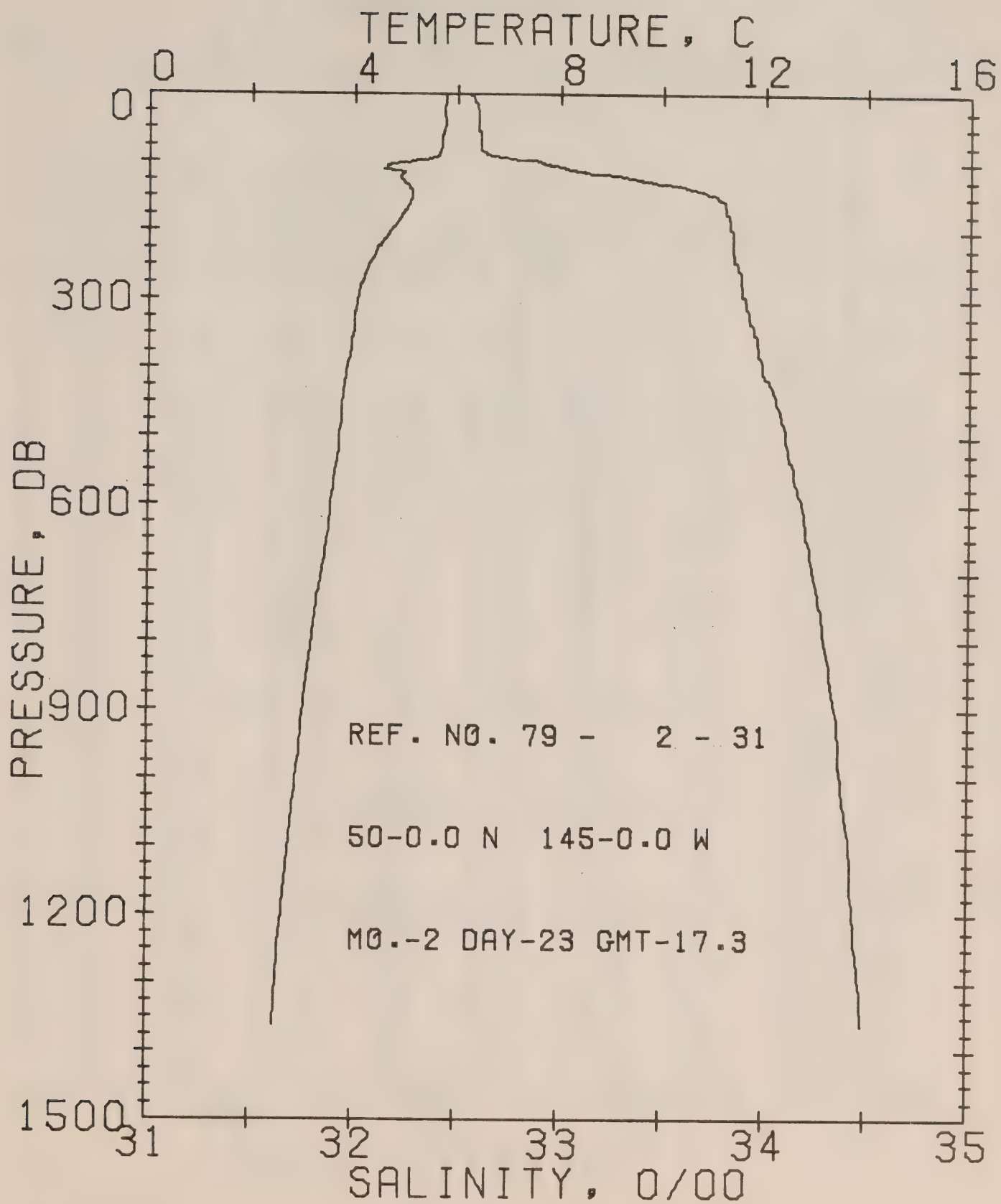
REFERENCE NO. 79- 2- 31 DATE 23/ 2/79

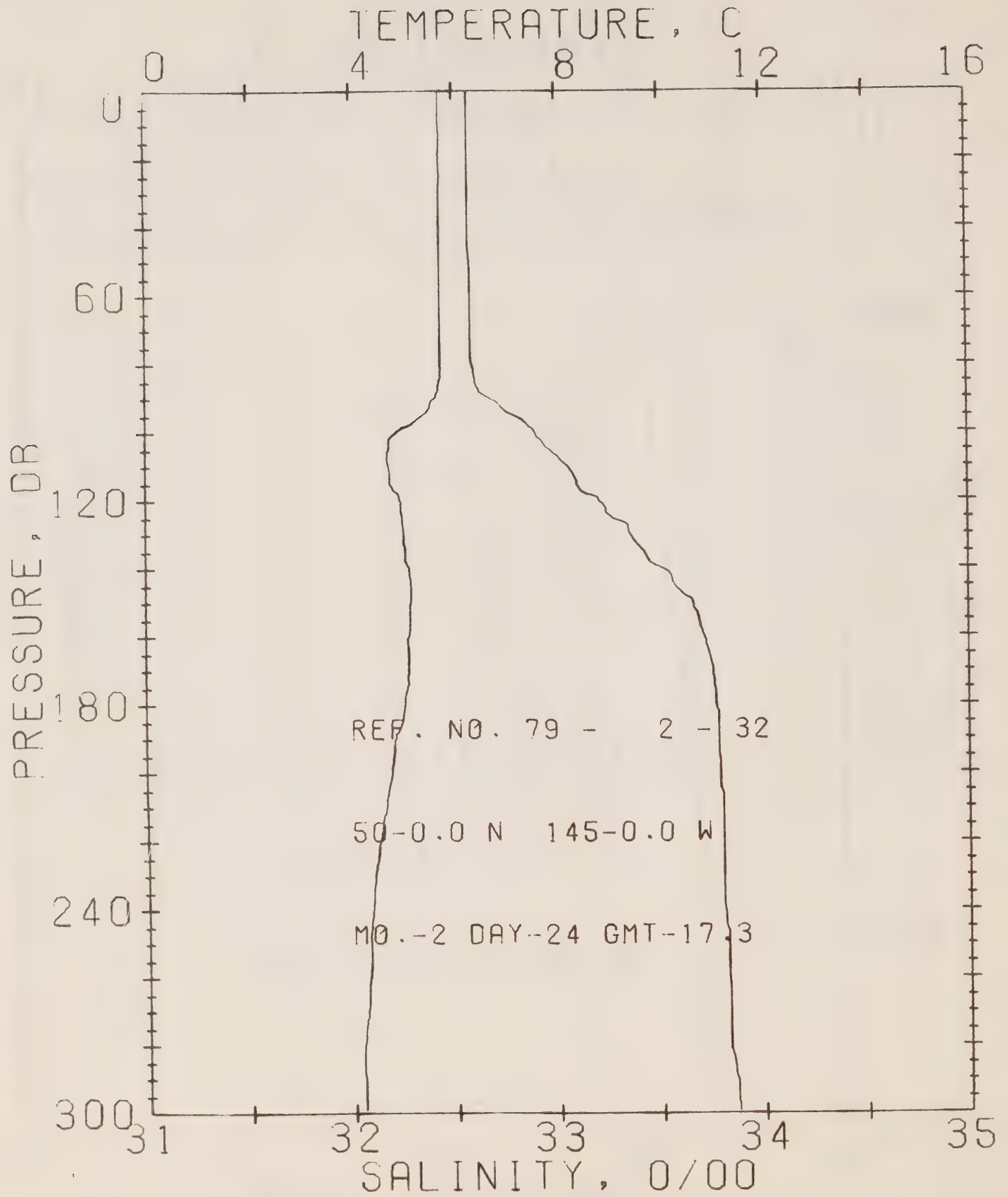
POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 276 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.73	32.55	0	25.68	232.4	.00	.00	1471.
10	5.75	32.58	10	25.70	230.5	.23	.01	1471.
20	5.74	32.59	20	25.71	229.6	.46	.05	1471.
30	5.74	32.60	30	25.71	229.1	.69	.11	1471.
50	5.74	32.60	50	25.71	229.3	1.15	.29	1472.
75	5.67	32.61	75	25.73	228.0	1.72	.66	1472.
100	4.87	32.91	99	26.06	196.9	2.27	1.15	1469.
125	4.94	33.40	124	26.44	161.2	2.72	1.66	1471.
150	5.13	33.76	149	26.70	136.6	3.09	2.17	1472.
175	4.93	33.81	174	26.77	130.7	3.42	2.72	1472.
200	4.69	33.84	199	26.81	126.3	3.74	3.33	1471.
225	4.44	33.84	223	26.84	123.8	4.05	4.01	1471.
250	4.27	33.87	248	26.88	120.0	4.36	4.75	1471.
300	4.06	33.90	298	26.93	116.0	4.95	6.40	1471.
400	3.86	33.99	397	27.02	108.0	6.07	10.39	1471.
500	3.72	34.10	496	27.12	99.1	7.10	15.10	1473.
600	3.56	34.18	595	27.20	92.1	8.06	20.48	1474.
800	3.18	34.30	793	27.33	81.0	9.79	32.80	1476.
1000	2.89	34.38	990	27.42	73.0	11.32	46.79	1478.
1200	2.62	34.44	1188	27.50	66.6	12.71	62.34	1480.





OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 32

DATE 24/ 2/79

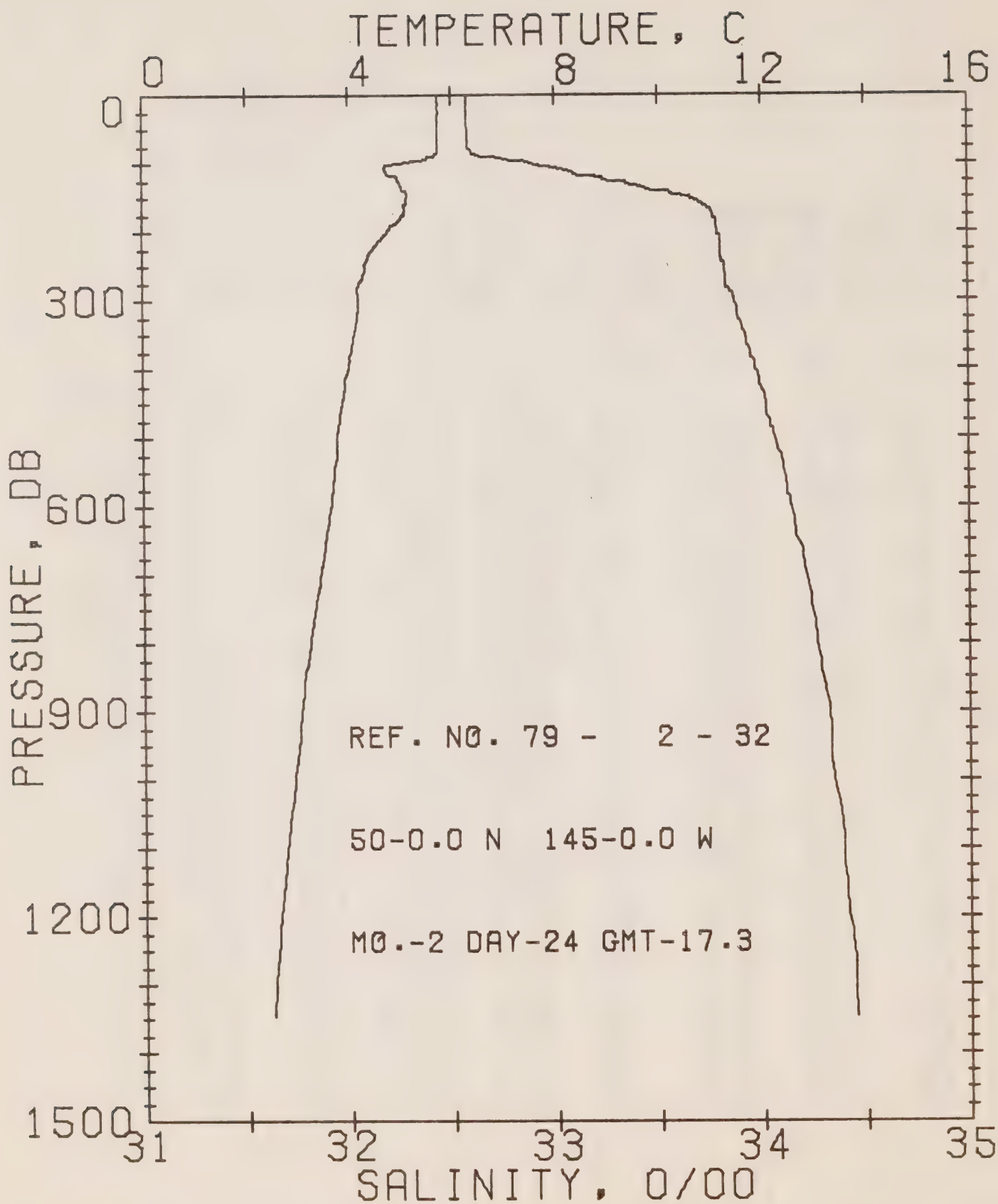
POSITION 50- .0N, 145- .0W GMT 17.3

STATION P

RESULTS OF STP CAST 169 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.57	0	25.69	231.0	.00	.00	1471.
10	5.74	32.57	10	25.69	231.1	.23	.01	1471.
20	5.74	32.57	20	25.69	231.2	.46	.05	1471.
30	5.74	32.57	30	25.69	231.3	.69	.11	1471.
40	5.74	32.57	40	25.69	231.4	.92	.19	1471.
50	5.74	32.58	50	25.70	231.0	1.16	.29	1472.
60	5.74	32.58	60	25.70	230.9	1.39	.42	1472.
70	5.73	32.58	70	25.70	230.9	1.62	.58	1472.
80	5.74	32.59	79	25.70	230.7	1.85	.75	1472.
90	5.62	32.67	89	25.78	223.1	2.08	.95	1472.
100	4.86	32.89	99	26.04	198.3	2.29	1.16	1469.
110	4.72	33.05	109	26.19	184.9	2.48	1.36	1469.
120	4.94	33.20	119	26.28	176.1	2.66	1.57	1470.
130	5.00	33.36	129	26.40	165.0	2.83	1.79	1471.
140	5.11	33.51	139	26.51	155.0	2.99	2.01	1472.
150	5.14	33.65	149	26.62	144.6	3.14	2.23	1472.
160	5.10	33.71	159	26.66	140.2	3.29	2.46	1472.
170	5.10	33.75	169	26.70	137.3	3.42	2.69	1473.
180	5.00	33.77	179	26.72	134.8	3.56	2.93	1472.
190	4.82	33.78	189	26.75	132.1	3.69	3.18	1472.
200	4.75	33.79	199	26.77	130.7	3.82	3.45	1472.
210	4.63	33.80	209	26.79	128.7	3.95	3.72	1471.
220	4.51	33.80	218	26.80	127.5	4.08	4.00	1471.
230	4.41	33.80	228	26.81	126.6	4.21	4.29	1471.
240	4.35	33.81	238	26.82	125.5	4.34	4.59	1471.
250	4.31	33.82	248	26.84	124.2	4.46	4.90	1471.
260	4.30	33.82	258	26.84	123.9	4.58	5.22	1471.
270	4.25	33.83	268	26.85	123.0	4.71	5.56	1471.
280	4.18	33.83	278	26.86	122.3	4.83	5.90	1471.
290	4.18	33.86	288	26.88	120.2	4.95	6.25	1471.
300	4.20	33.87	298	26.89	119.7	5.07	6.61	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 32

DATE 24/ 2/79

POSITION 50- .0N, 145- .0W

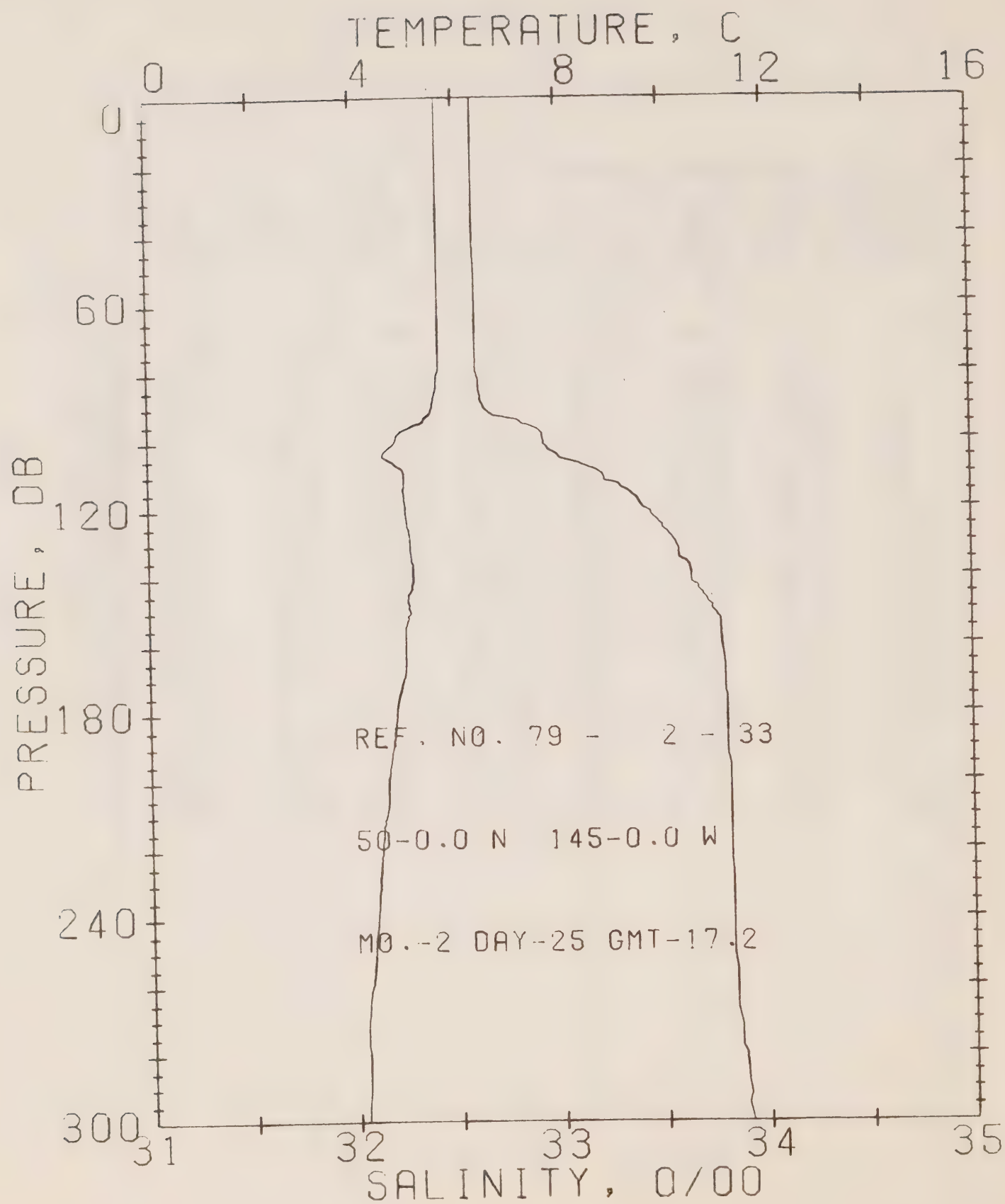
GMT 17.3

STATION P

RESULTS OF STP CAST 268 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.57	0	25.69	231.0	.00	.00	1471.
10	5.74	32.57	10	25.69	231.1	.23	.01	1471.
20	5.74	32.57	20	25.69	231.2	.46	.05	1471.
30	5.74	32.57	30	25.69	231.3	.69	.11	1471.
50	5.74	32.58	50	25.70	231.0	1.16	.29	1472.
75	5.74	32.58	75	25.70	231.0	1.73	.66	1472.
100	4.86	32.89	99	26.04	198.3	2.29	1.16	1469.
125	4.99	33.27	124	26.33	171.5	2.75	1.68	1471.
150	5.14	33.65	149	26.62	144.6	3.14	2.23	1472.
175	5.07	33.76	174	26.71	135.9	3.49	2.81	1473.
200	4.75	33.79	199	26.77	130.7	3.82	3.45	1472.
225	4.47	33.80	223	26.81	127.1	4.15	4.14	1471.
250	4.31	33.82	248	26.84	124.2	4.46	4.90	1471.
300	4.20	33.87	298	26.89	119.7	5.07	6.61	1471.
400	3.99	33.97	397	26.99	110.8	6.23	10.73	1472.
500	3.77	34.06	496	27.08	102.9	7.29	15.61	1473.
600	3.63	34.14	595	27.16	96.3	8.29	21.17	1474.
800	3.22	34.26	793	27.30	84.1	10.08	33.92	1476.
1000	2.91	34.34	990	27.39	76.1	11.66	48.42	1478.
1200	2.62	34.41	1188	27.47	68.5	13.09	64.46	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 33

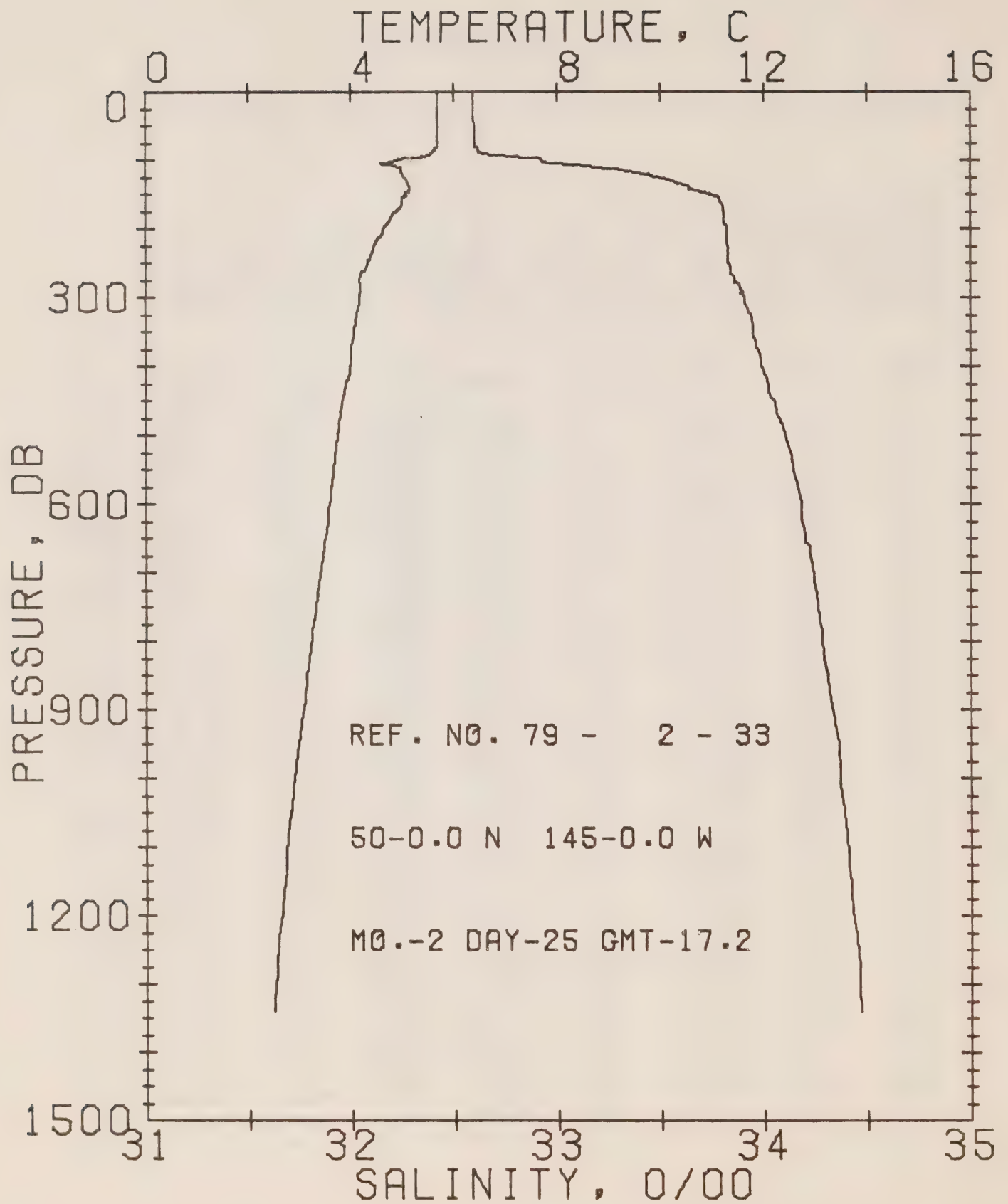
DATE 25/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 130 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.59	0	25.71	228.7	.00	.00	1471.
10	5.68	32.59	10	25.71	228.9	.23	.01	1471.
20	5.68	32.59	20	25.71	229.0	.46	.05	1471.
30	5.68	32.59	30	25.71	229.1	.69	.11	1471.
40	5.68	32.59	40	25.71	229.2	.92	.19	1471.
50	5.68	32.60	50	25.72	228.7	1.14	.29	1471.
60	5.68	32.60	60	25.72	228.7	1.37	.42	1472.
70	5.67	32.60	70	25.72	228.7	1.60	.57	1472.
80	5.67	32.60	79	25.72	228.8	1.83	.75	1472.
90	5.55	32.63	89	25.76	225.3	2.06	.94	1472.
100	4.82	32.92	99	26.08	195.3	2.27	1.15	1469.
110	4.98	33.21	109	26.28	175.7	2.45	1.35	1470.
120	5.00	33.41	119	26.44	161.1	2.62	1.54	1471.
130	5.09	33.56	129	26.55	151.0	2.78	1.74	1472.
140	5.15	33.64	139	26.60	145.7	2.93	1.94	1472.
150	5.08	33.74	149	26.69	137.6	3.07	2.15	1472.
160	4.98	33.79	159	26.74	133.0	3.20	2.36	1472.
170	4.96	33.80	169	26.75	132.0	3.33	2.59	1472.
180	4.79	33.81	179	26.78	129.4	3.46	2.82	1471.
190	4.73	33.81	189	26.79	128.8	3.59	3.06	1471.
200	4.62	33.82	199	26.81	127.0	3.72	3.32	1471.
210	4.57	33.82	208	26.81	126.6	3.85	3.58	1471.
220	4.48	33.82	218	26.82	125.7	3.97	3.86	1471.
230	4.43	33.83	228	26.83	124.6	4.10	4.15	1471.
240	4.38	33.83	238	26.84	124.1	4.22	4.44	1471.
250	4.32	33.83	248	26.85	123.5	4.35	4.75	1471.
260	4.26	33.84	258	26.86	122.2	4.47	5.07	1471.
270	4.18	33.85	268	26.88	120.6	4.59	5.40	1470.
280	4.18	33.88	278	26.90	118.6	4.71	5.74	1471.
290	4.19	33.89	288	26.91	117.6	4.83	6.08	1471.
300	4.16	33.91	298	26.93	116.3	4.95	6.43	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 33

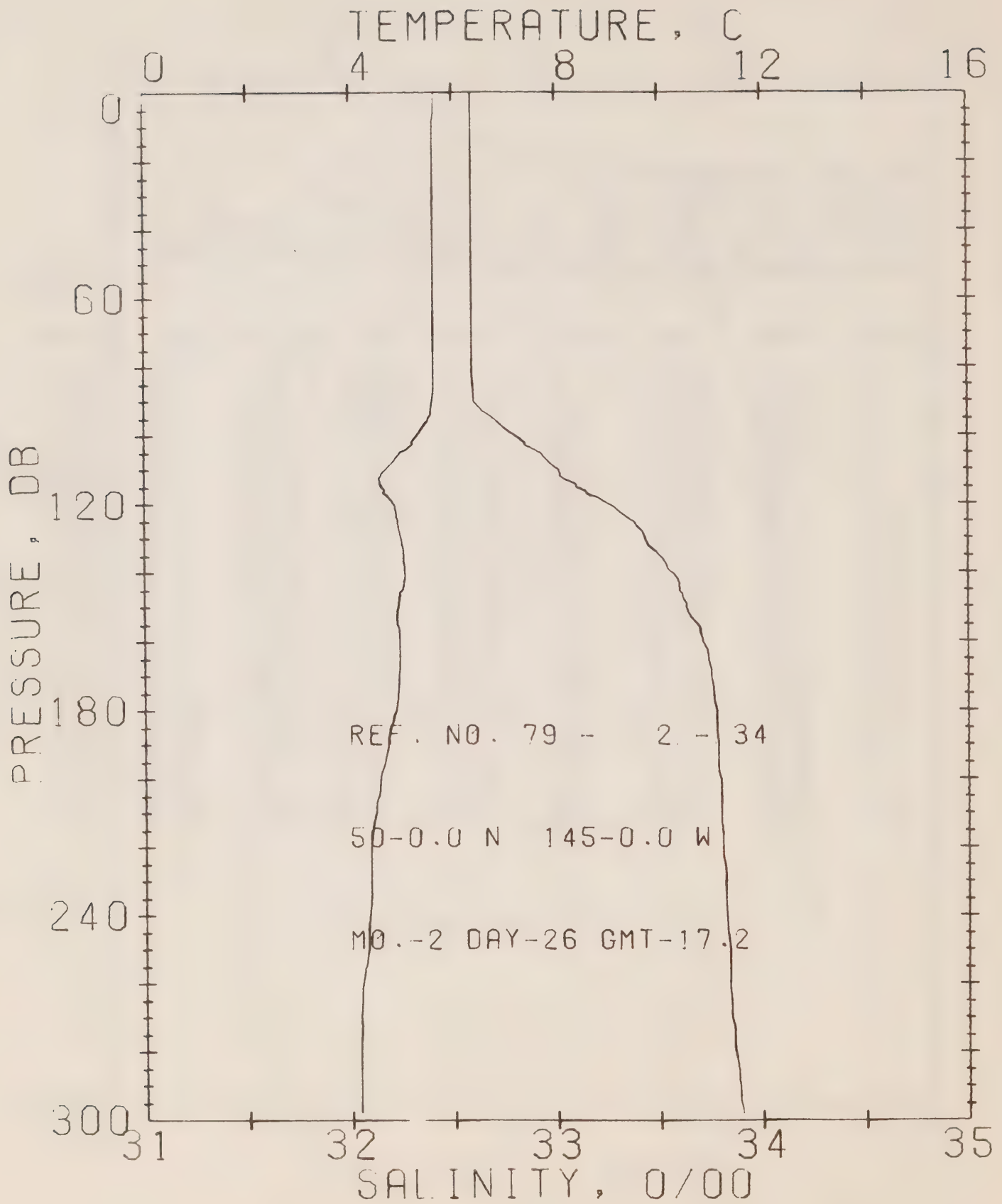
DATE 25/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 226 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.59	0	25.71	228.7	.00	.00	1471.
10	5.68	32.59	10	25.71	228.9	.23	.01	1471.
20	5.68	32.59	20	25.71	229.0	.46	.05	1471.
30	5.68	32.59	30	25.71	229.1	.69	.11	1471.
50	5.68	32.60	50	25.72	228.7	1.14	.29	1471.
75	5.67	32.60	75	25.72	228.7	1.72	.66	1472.
100	4.82	32.92	99	26.08	195.3	2.27	1.15	1469.
125	5.04	33.50	124	26.51	154.8	2.70	1.64	1471.
150	5.08	33.74	149	26.69	137.6	3.07	2.15	1472.
175	4.86	33.81	174	26.77	130.2	3.40	2.70	1472.
200	4.62	33.82	199	26.81	127.0	3.72	3.32	1471.
225	4.45	33.82	223	26.83	125.2	4.04	4.00	1471.
250	4.32	33.83	248	26.85	123.5	4.35	4.75	1471.
300	4.16	33.91	298	26.93	116.3	4.95	6.43	1471.
400	3.98	33.99	397	27.01	109.3	6.07	10.44	1472.
500	3.74	34.10	496	27.12	99.3	7.12	15.22	1473.
600	3.57	34.18	595	27.20	92.3	8.07	20.58	1474.
800	3.21	34.28	793	27.32	82.3	9.82	33.01	1476.
1000	2.88	34.37	990	27.42	73.5	11.37	47.22	1478.
1200	2.63	34.43	1188	27.49	67.3	12.78	62.95	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 34

DATE 26/ 2/79

POSITION 50- .0N, 145- .0W

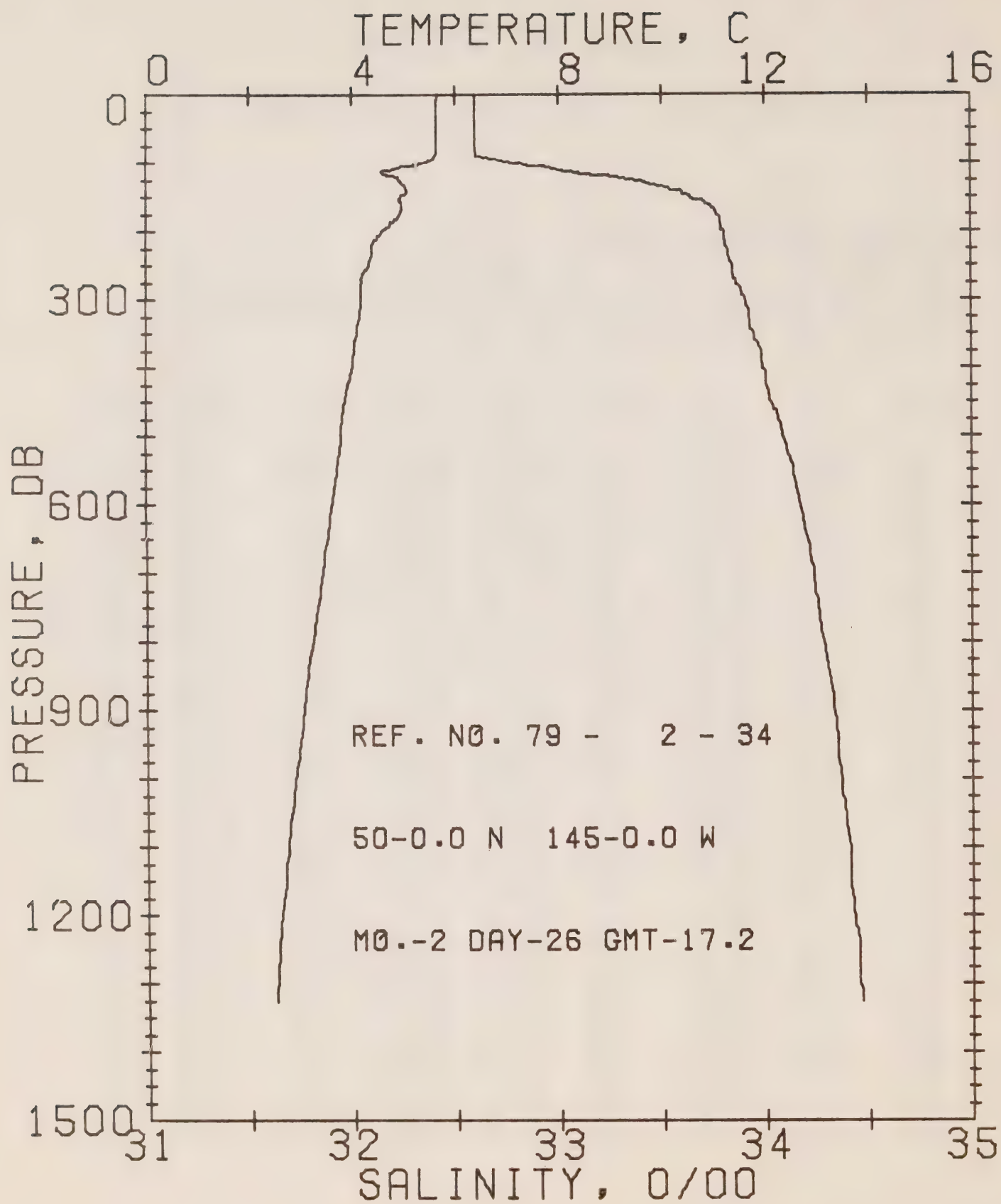
GMT 17.2

STATION P

RESULTS OF STP CAST 123 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.65	32.59	0	25.72	228.5	.00	.00	1470.
10	5.64	32.59	10	25.72	228.5	.23	.01	1471.
20	5.63	32.59	20	25.72	228.5	.46	.05	1471.
30	5.63	32.59	30	25.72	228.6	.69	.10	1471.
40	5.63	32.59	40	25.72	228.7	.91	.19	1471.
50	5.63	32.59	50	25.72	228.8	1.14	.29	1471.
60	5.63	32.59	60	25.72	228.9	1.37	.42	1471.
70	5.63	32.59	70	25.72	229.0	1.60	.57	1472.
80	5.63	32.59	79	25.72	229.1	1.83	.75	1472.
90	5.60	32.60	89	25.73	228.1	2.06	.94	1472.
100	5.31	32.80	99	25.92	210.0	2.28	1.16	1471.
110	4.70	33.01	109	26.16	187.7	2.48	1.37	1469.
120	4.84	33.25	119	26.33	171.4	2.66	1.58	1470.
130	5.00	33.43	129	26.46	159.4	2.82	1.79	1471.
140	5.06	33.56	139	26.55	150.8	2.98	2.00	1472.
150	4.93	33.63	149	26.62	144.1	3.12	2.22	1471.
160	4.96	33.71	159	26.68	138.6	3.26	2.44	1472.
170	4.94	33.75	169	26.71	135.5	3.40	2.67	1472.
180	4.88	33.78	179	26.75	132.7	3.53	2.91	1472.
190	4.72	33.79	189	26.77	130.3	3.67	3.16	1471.
200	4.57	33.80	199	26.80	128.0	3.79	3.42	1471.
210	4.47	33.80	208	26.81	127.0	3.92	3.68	1471.
220	4.38	33.81	218	26.82	125.4	4.05	3.96	1470.
230	4.38	33.82	228	26.83	124.7	4.17	4.24	1471.
240	4.34	33.83	238	26.84	123.9	4.30	4.54	1471.
250	4.31	33.84	248	26.85	122.7	4.42	4.85	1471.
260	4.21	33.84	258	26.87	121.7	4.54	5.17	1470.
270	4.16	33.85	268	26.88	120.5	4.66	5.50	1470.
280	4.16	33.86	278	26.89	119.6	4.78	5.83	1471.
290	4.16	33.89	288	26.91	118.0	4.90	6.18	1471.
300	4.16	33.90	298	26.92	116.9	5.02	6.53	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 34

DATE 26/ 2/79

POSITION 50- .0N, 145- .0W

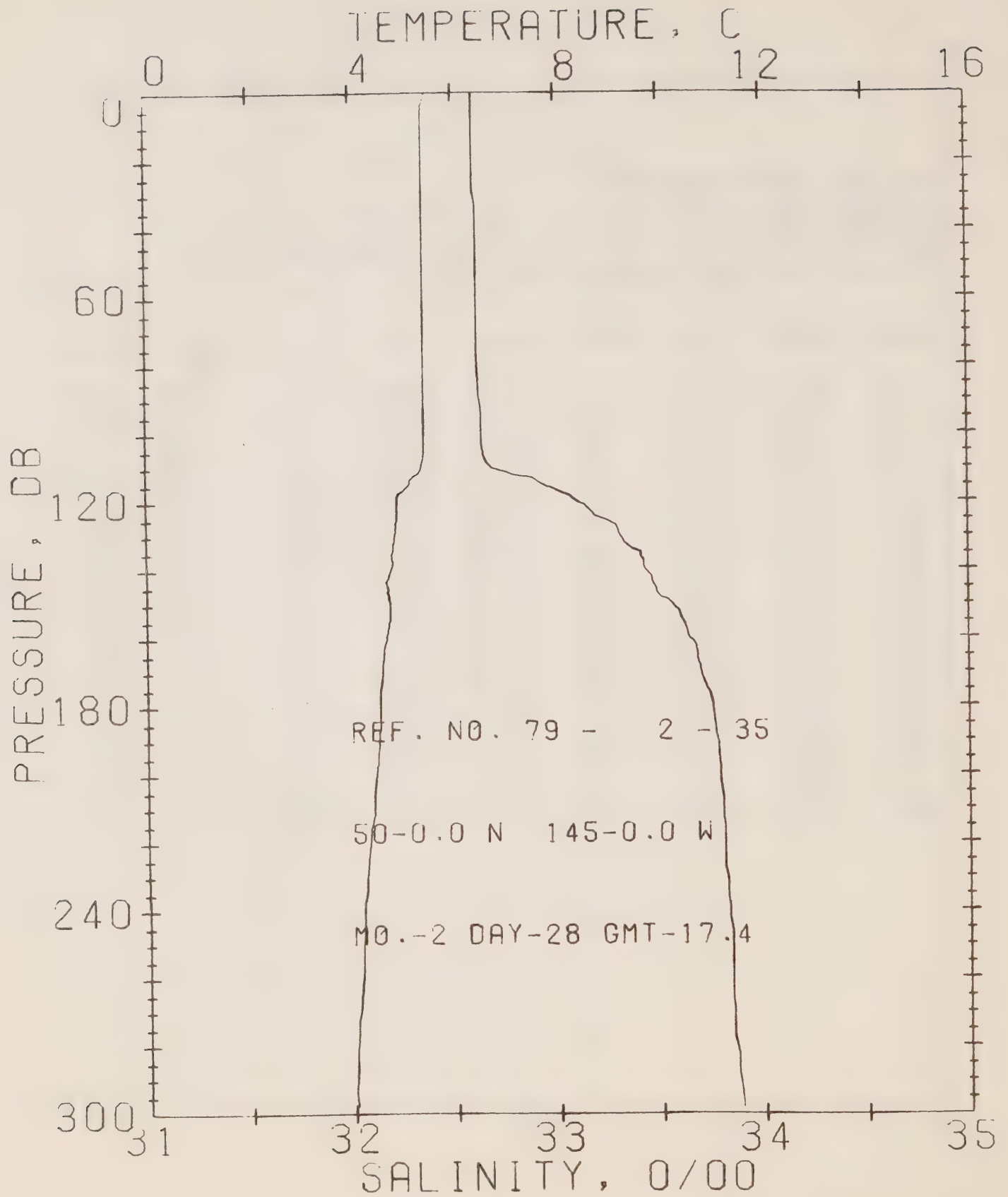
GMT 17.2

STATION P

RESULTS OF STP CAST 231 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.65	32.59	0	25.72	228.5	.00	.00	1470.
10	5.64	32.59	10	25.72	228.5	.23	.01	1471.
20	5.63	32.59	20	25.72	228.5	.46	.05	1471.
30	5.63	32.59	30	25.72	228.6	.69	.10	1471.
50	5.63	32.59	50	25.72	228.8	1.14	.29	1471.
75	5.63	32.59	75	25.72	229.0	1.72	.66	1472.
100	5.31	32.80	99	25.92	210.0	2.28	1.16	1471.
125	4.93	33.38	124	26.42	162.6	2.74	1.68	1471.
150	4.93	33.63	149	26.62	144.1	3.12	2.22	1471.
175	4.92	33.77	174	26.73	133.9	3.47	2.79	1472.
200	4.57	33.80	199	26.80	128.0	3.79	3.42	1471.
225	4.37	33.82	223	26.83	124.9	4.11	4.10	1470.
250	4.31	33.84	248	26.85	122.7	4.42	4.85	1471.
300	4.16	33.90	298	26.92	116.9	5.02	6.53	1471.
400	3.99	33.99	397	27.01	109.3	6.15	10.56	1472.
500	3.77	34.08	496	27.10	101.0	7.20	15.38	1473.
600	3.59	34.17	595	27.19	93.7	8.17	20.81	1474.
800	3.21	34.28	793	27.32	82.2	9.93	33.30	1476.
1000	2.87	34.37	990	27.41	73.6	11.48	47.49	1478.
1200	2.59	34.43	1188	27.48	67.4	12.88	63.22	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 35

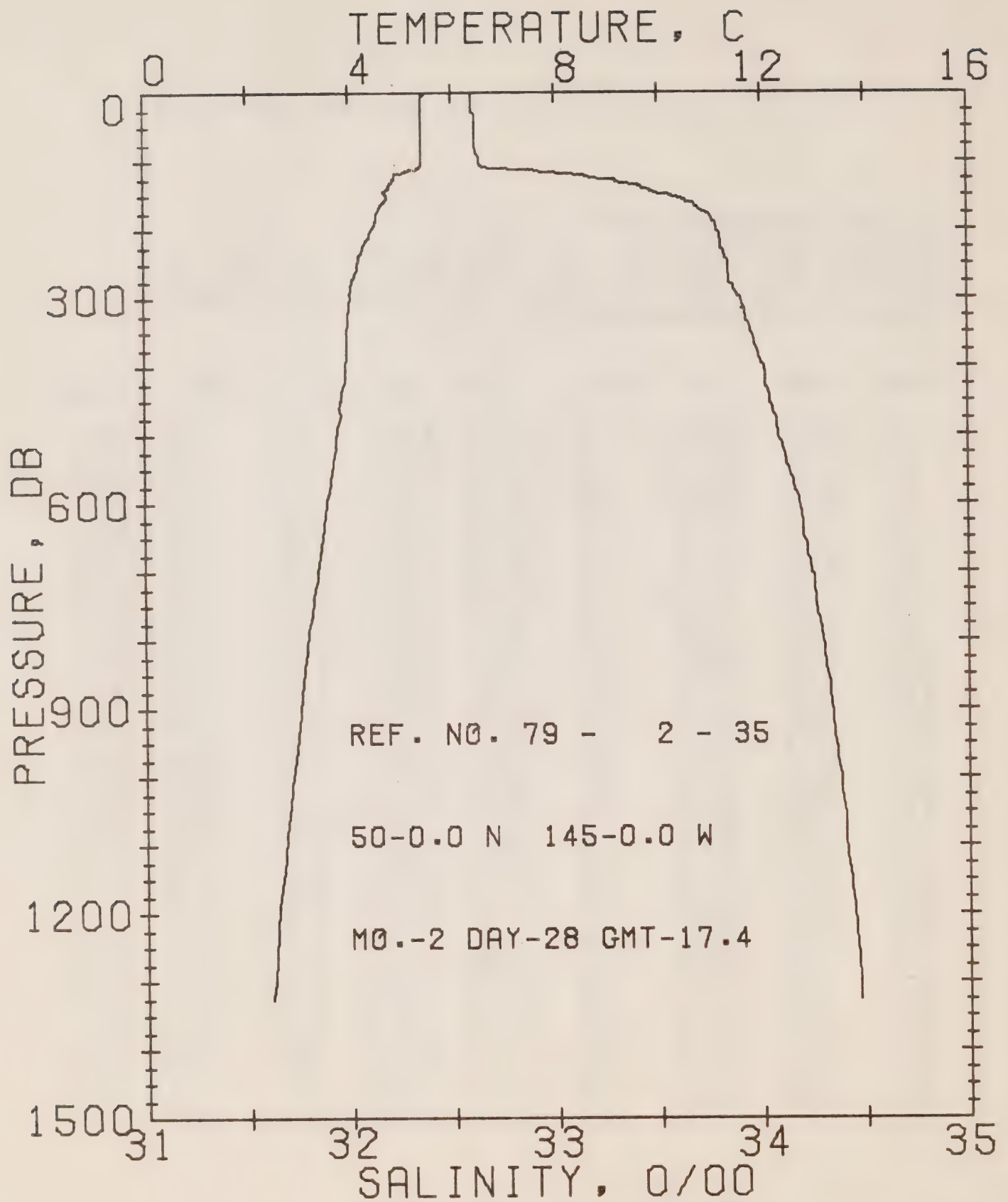
DATE 28/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 133 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.49	32.60	0	25.74	225.9	.00	.00	1470.
10	5.42	32.60	10	25.75	225.3	.23	.01	1470.
20	5.42	32.60	20	25.75	225.4	.45	.05	1470.
30	5.42	32.60	30	25.75	225.3	.68	.10	1470.
40	5.42	32.61	40	25.76	224.8	.90	.18	1470.
50	5.42	32.61	50	25.76	224.9	1.13	.29	1470.
60	5.42	32.61	60	25.76	225.0	1.35	.41	1471.
70	5.42	32.61	70	25.76	225.1	1.58	.56	1471.
80	5.42	32.61	79	25.76	225.0	1.80	.73	1471.
90	5.42	32.62	89	25.77	224.3	2.03	.93	1471.
100	5.42	32.63	99	25.78	223.9	2.25	1.15	1471.
110	5.37	32.68	109	25.82	219.7	2.47	1.38	1471.
120	4.87	33.10	119	26.21	182.9	2.67	1.62	1470.
130	4.85	33.31	129	26.38	167.0	2.84	1.84	1470.
140	4.77	33.43	139	26.48	157.3	3.01	2.06	1470.
150	4.75	33.56	149	26.59	147.4	3.16	2.29	1471.
160	4.67	33.64	159	26.66	140.7	3.30	2.51	1470.
170	4.58	33.69	169	26.71	135.7	3.44	2.74	1470.
180	4.53	33.75	179	26.76	131.1	3.57	2.98	1470.
190	4.51	33.78	189	26.78	129.0	3.70	3.23	1470.
200	4.44	33.79	199	26.80	127.3	3.83	3.48	1470.
210	4.39	33.80	209	26.81	126.2	3.96	3.75	1470.
220	4.31	33.81	218	26.83	124.6	4.08	4.02	1470.
230	4.25	33.82	228	26.84	123.5	4.21	4.30	1470.
240	4.20	33.83	238	26.86	122.2	4.33	4.60	1470.
250	4.17	33.84	248	26.87	121.2	4.45	4.90	1470.
260	4.14	33.84	258	26.87	121.0	4.57	5.22	1470.
270	4.09	33.85	268	26.89	119.8	4.69	5.54	1470.
280	4.03	33.86	278	26.90	118.4	4.81	5.88	1470.
290	4.02	33.87	288	26.91	117.4	4.93	6.22	1470.
300	4.02	33.90	298	26.93	115.9	5.05	6.57	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 35

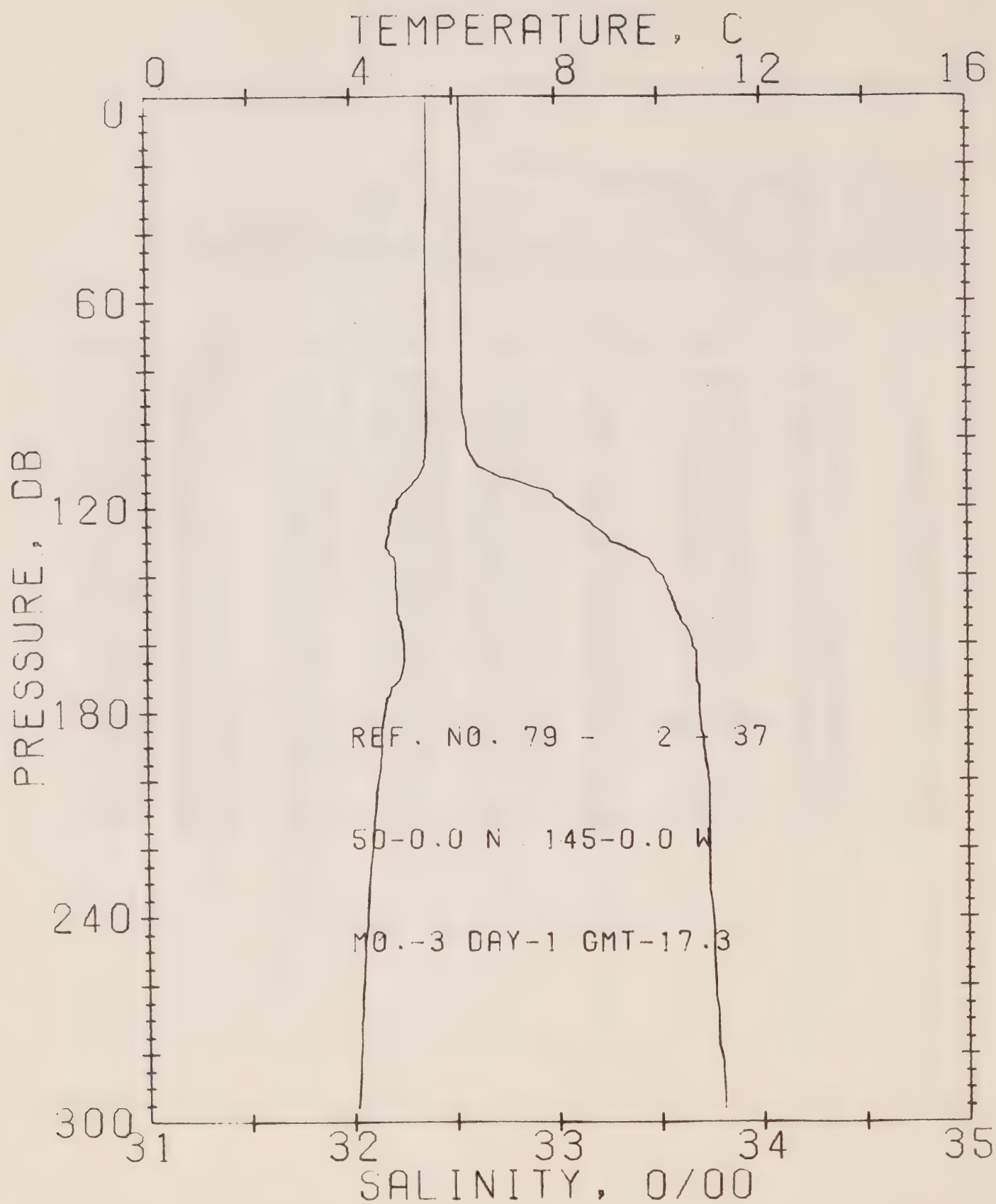
DATE 28/ 2/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 237 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.49	32.60	0	25.74	225.9	.00	.00	1470.
10	5.42	32.60	10	25.75	225.3	.23	.01	1470.
20	5.42	32.60	20	25.75	225.4	.45	.05	1470.
30	5.42	32.60	30	25.75	225.3	.68	.10	1470.
50	5.42	32.61	50	25.76	224.9	1.13	.29	1470.
75	5.42	32.61	75	25.76	225.2	1.69	.65	1471.
100	5.42	32.63	99	25.78	223.9	2.25	1.15	1471.
125	4.89	33.23	124	26.31	173.4	2.76	1.73	1470.
150	4.75	33.56	149	26.59	147.4	3.16	2.29	1471.
175	4.55	33.73	174	26.74	132.7	3.51	2.86	1470.
200	4.44	33.79	199	26.80	127.3	3.83	3.48	1470.
225	4.28	33.81	223	26.83	124.4	4.15	4.16	1470.
250	4.17	33.84	248	26.87	121.2	4.45	4.90	1470.
300	4.02	33.90	298	26.93	115.9	5.05	6.57	1470.
400	3.92	34.01	397	27.03	107.1	6.16	10.54	1472.
500	3.75	34.08	496	27.10	100.9	7.20	15.32	1473.
600	3.54	34.18	595	27.20	92.0	8.17	20.72	1474.
800	3.16	34.30	793	27.33	80.7	9.90	33.03	1475.
1000	2.86	34.38	990	27.43	72.5	11.44	47.09	1478.
1200	2.56	34.44	1188	27.50	65.8	12.82	62.62	1480.



OFFSHORE OCEANOGRAPHY GROUP

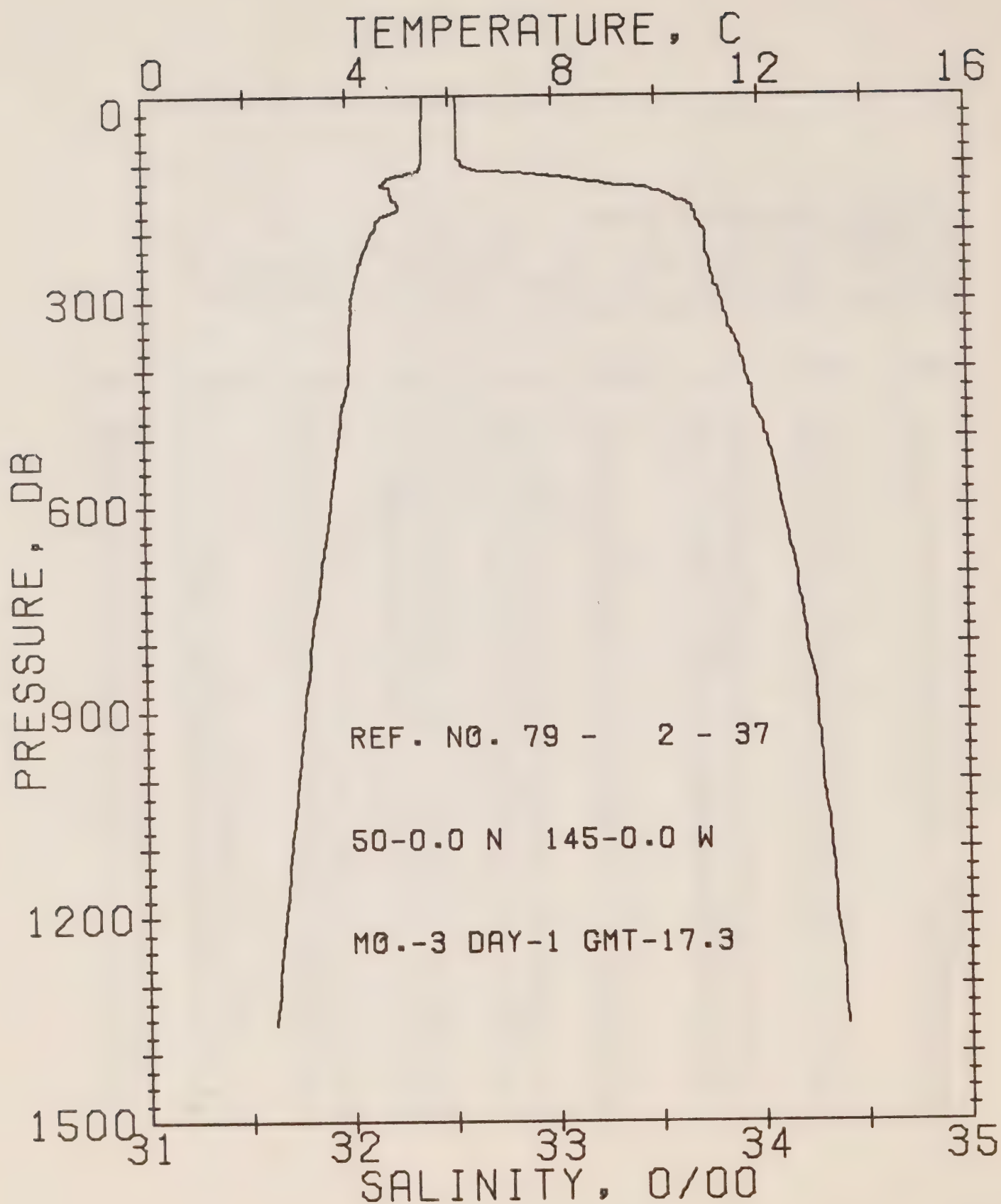
REFERENCE NO. 79- 2- 37 DATE 1/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 117 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.48	32.53	0	25.69	231.1	.00	.00	1470.
10	5.48	32.54	10	25.69	230.7	.23	.01	1470.
20	5.48	32.54	20	25.70	230.5	.46	.05	1470.
30	5.48	32.54	30	25.70	230.6	.69	.11	1470.
40	5.47	32.54	40	25.70	230.6	.92	.19	1470.
50	5.47	32.54	50	25.70	230.7	1.15	.29	1470.
60	5.47	32.54	60	25.70	230.8	1.38	.42	1471.
70	5.47	32.54	70	25.70	230.9	1.62	.58	1471.
80	5.47	32.54	79	25.70	231.0	1.85	.75	1471.
90	5.46	32.54	89	25.70	231.0	2.08	.95	1471.
100	5.45	32.56	99	25.72	229.5	2.31	1.18	1471.
110	5.36	32.68	109	25.82	219.5	2.53	1.42	1471.
120	4.87	33.05	119	26.17	186.6	2.73	1.65	1470.
130	4.68	33.26	129	26.36	168.9	2.91	1.88	1469.
140	4.86	33.52	139	26.54	151.5	3.07	2.09	1471.
150	4.87	33.58	149	26.59	147.2	3.22	2.32	1471.
160	5.00	33.66	159	26.64	142.8	3.36	2.54	1472.
170	4.93	33.68	169	26.66	140.6	3.50	2.78	1472.
180	4.61	33.69	179	26.70	136.5	3.64	3.03	1471.
190	4.55	33.71	189	26.73	134.4	3.78	3.28	1471.
200	4.50	33.73	199	26.75	132.1	3.91	3.55	1471.
210	4.43	33.74	209	26.76	131.1	4.04	3.82	1470.
220	4.36	33.74	218	26.77	130.4	4.17	4.11	1470.
230	4.31	33.74	228	26.78	129.9	4.30	4.41	1470.
240	4.27	33.75	238	26.79	128.6	4.43	4.72	1470.
250	4.21	33.76	248	26.80	127.6	4.56	5.04	1470.
260	4.19	33.77	258	26.81	126.7	4.69	5.37	1470.
270	4.14	33.78	268	26.82	125.6	4.81	5.71	1470.
280	4.11	33.79	278	26.84	124.5	4.94	6.06	1470.
290	4.08	33.81	288	26.85	123.0	5.06	6.42	1470.
300	4.07	33.82	298	26.86	122.3	5.19	6.79	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 37

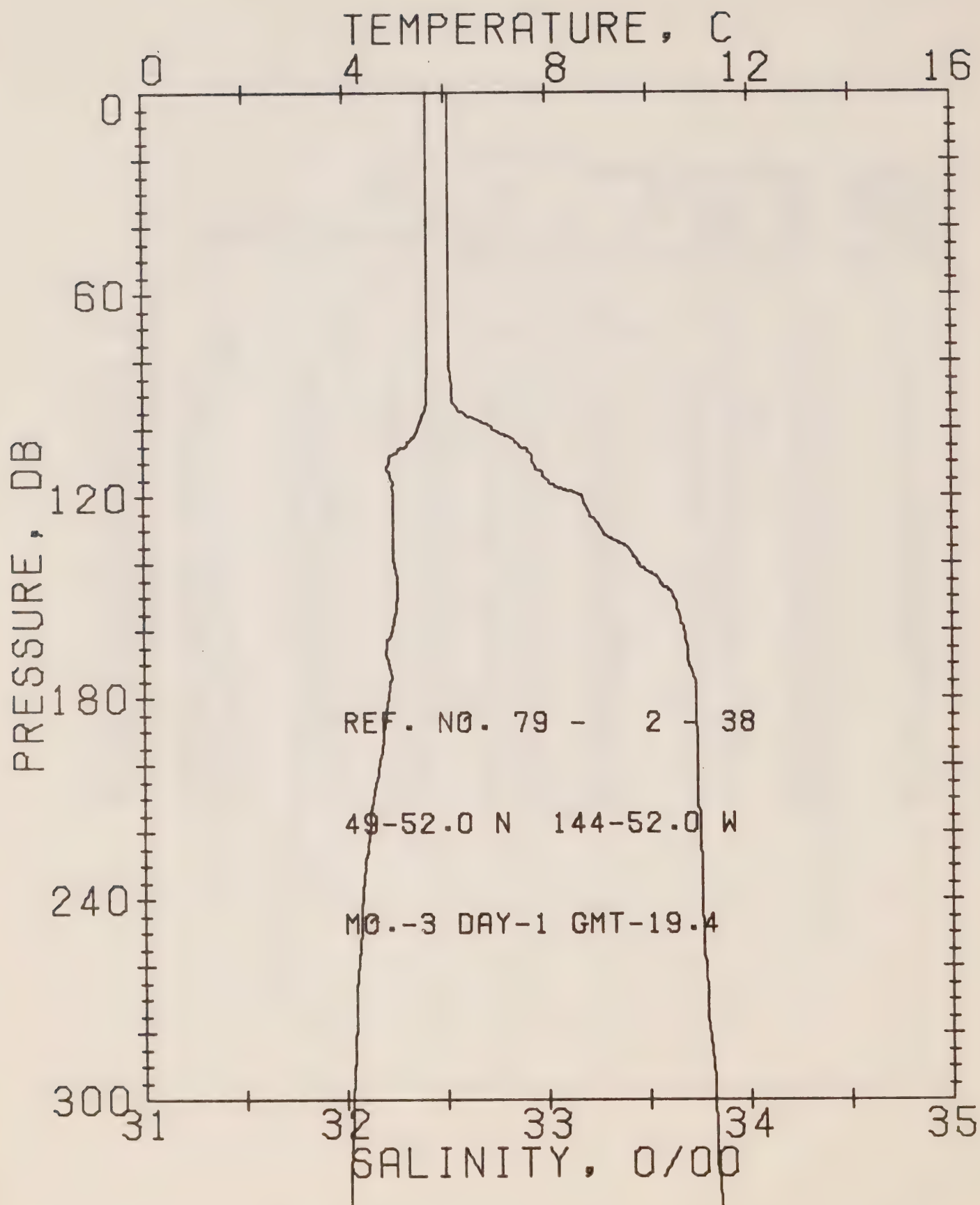
DATE 1/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 242 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.48	32.53	0	25.69	231.1	.00	.00	1470.
10	5.48	32.54	10	25.69	230.7	.23	.01	1470.
20	5.48	32.54	20	25.70	230.5	.46	.05	1470.
30	5.48	32.54	30	25.70	230.6	.69	.11	1470.
50	5.47	32.54	50	25.70	230.7	1.15	.29	1470.
75	5.47	32.54	75	25.70	231.0	1.73	.66	1471.
100	5.45	32.56	99	25.72	229.5	2.31	1.18	1471.
125	4.74	33.17	124	26.28	176.3	2.82	1.77	1470.
150	4.87	33.58	149	26.59	147.2	3.22	2.32	1471.
175	4.73	33.69	174	26.69	137.7	3.57	2.90	1471.
200	4.50	33.73	199	26.75	132.1	3.91	3.55	1471.
225	4.34	33.74	223	26.77	130.2	4.24	4.26	1470.
250	4.21	33.76	248	26.80	127.6	4.56	5.04	1470.
300	4.07	33.82	298	26.86	122.3	5.19	6.79	1470.
400	3.99	33.93	397	26.96	114.0	6.37	11.00	1472.
500	3.80	34.03	496	27.06	105.3	7.47	16.04	1473.
600	3.62	34.10	595	27.13	99.1	8.49	21.75	1474.
800	3.22	34.21	793	27.26	87.5	10.34	34.93	1476.
1000	2.94	34.29	990	27.35	80.0	12.00	50.12	1478.
1200	2.66	34.35	1188	27.42	73.5	13.52	67.20	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 38

DATE 1/ 3/79

POSITION 49-52.0N, 144-52.0W

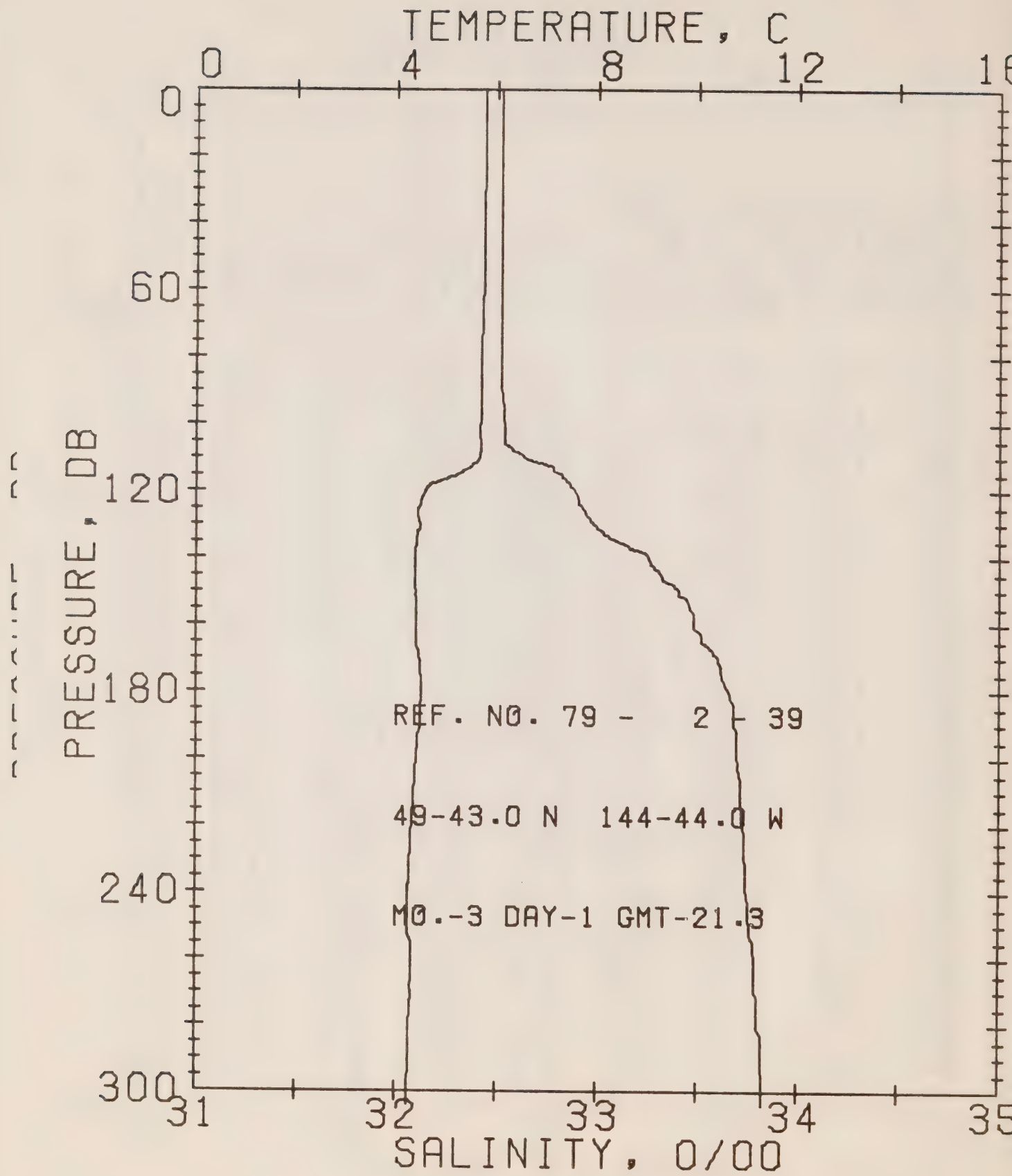
GMT 19.4

STATION E3

RESULTS OF STP CAST 126 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.65	32.52	0	25.66	233.7	.00	.00	1470.
10	5.65	32.52	10	25.66	233.8	.23	.01	1471.
20	5.65	32.52	20	25.66	233.9	.47	.05	1471.
30	5.65	32.52	30	25.66	234.0	.70	.11	1471.
40	5.65	32.52	40	25.66	234.1	.94	.19	1471.
50	5.65	32.52	50	25.66	234.2	1.17	.30	1471.
60	5.65	32.52	60	25.66	234.3	1.40	.43	1471.
70	5.65	32.52	70	25.66	234.4	1.64	.58	1472.
80	5.65	32.52	79	25.66	234.5	1.87	.76	1472.
90	5.64	32.53	89	25.67	233.8	2.11	.97	1472.
100	5.45	32.73	99	25.85	216.8	2.33	1.19	1471.
110	4.87	32.93	109	26.07	195.5	2.54	1.41	1470.
120	4.95	33.17	119	26.26	178.5	2.73	1.63	1470.
130	4.96	33.27	129	26.33	171.2	2.90	1.85	1471.
140	4.98	33.45	139	26.47	158.1	3.07	2.08	1471.
150	5.04	33.62	149	26.60	146.1	3.22	2.30	1472.
160	4.93	33.67	159	26.65	141.2	3.36	2.53	1472.
170	4.87	33.69	169	26.68	138.8	3.50	2.76	1472.
180	4.84	33.73	179	26.71	136.0	3.64	3.01	1472.
190	4.75	33.74	189	26.73	134.3	3.77	3.26	1471.
200	4.66	33.74	199	26.74	133.5	3.91	3.53	1471.
210	4.53	33.74	209	26.75	132.1	4.04	3.80	1471.
220	4.45	33.75	218	26.77	130.6	4.17	4.09	1471.
230	4.36	33.76	228	26.79	129.0	4.30	4.39	1470.
240	4.31	33.76	238	26.79	128.6	4.43	4.70	1470.
250	4.29	33.77	248	26.80	127.7	4.56	5.02	1470.
260	4.23	33.78	258	26.82	126.4	4.69	5.35	1470.
270	4.20	33.79	268	26.83	125.4	4.81	5.69	1470.
280	4.17	33.80	278	26.84	124.5	4.94	6.04	1471.
290	4.14	33.82	288	26.85	123.1	5.06	6.40	1471.
300	4.11	33.82	298	26.86	122.4	5.18	6.77	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 39

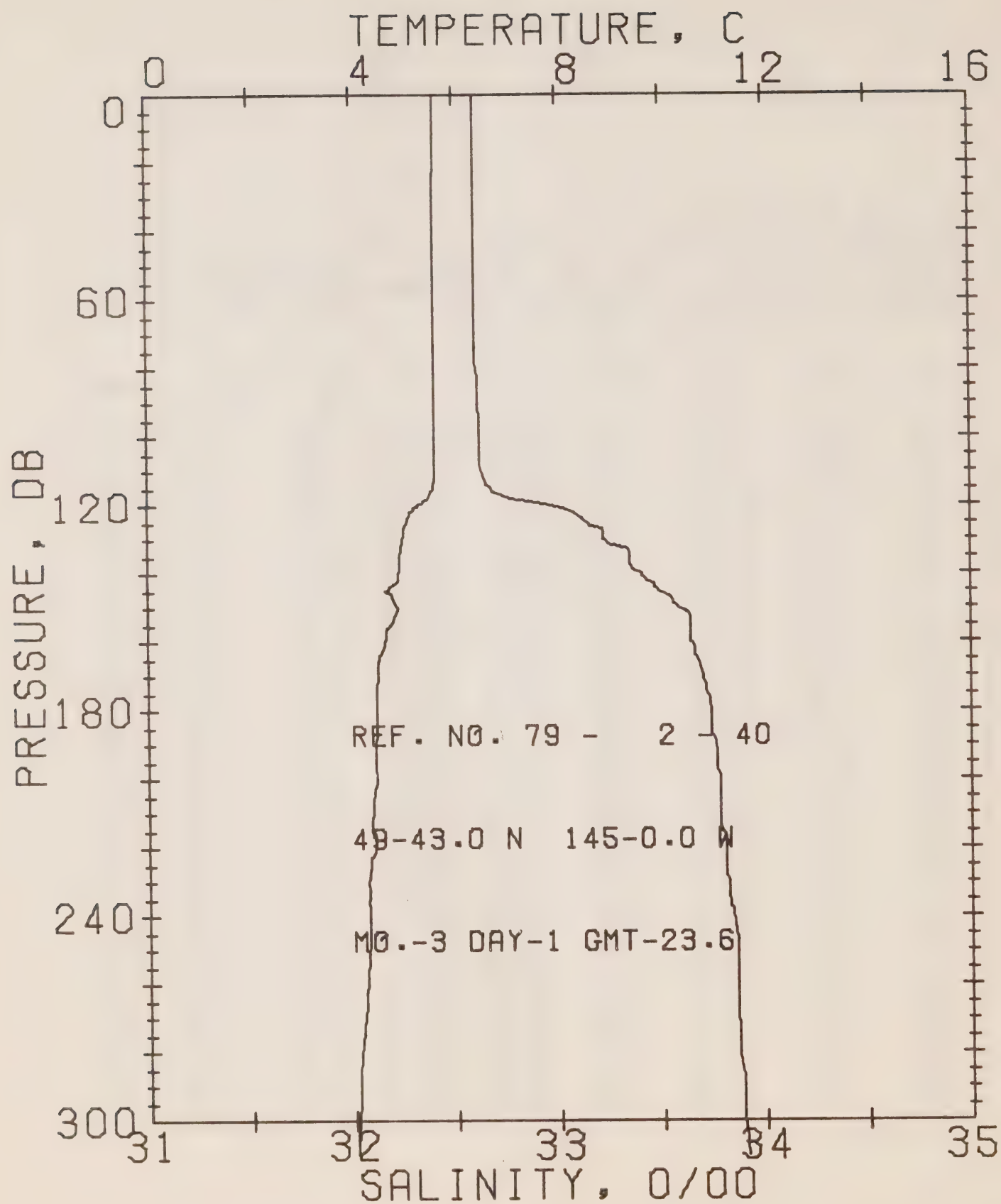
DATE 1/ 3/79

POSITION 49-43.0N, 144-44.0W GMT 21.3 STATION E4

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.76	32.52	0	25.65	235.0	.00	.00	1471.
10	5.76	32.52	10	25.65	235.1	.24	.01	1471.
20	5.75	32.52	20	25.65	235.1	.47	.05	1471.
30	5.75	32.52	30	25.65	235.1	.71	.11	1471.
40	5.74	32.52	40	25.65	235.2	.94	.19	1471.
50	5.74	32.52	50	25.65	235.3	1.18	.30	1472.
60	5.73	32.52	60	25.65	235.3	1.41	.43	1472.
70	5.70	32.52	70	25.66	235.0	1.65	.59	1472.
80	5.67	32.52	79	25.66	234.8	1.88	.77	1472.
90	5.67	32.52	89	25.66	234.8	2.12	.97	1472.
100	5.67	32.53	99	25.67	233.8	2.35	1.20	1472.
110	5.65	32.63	109	25.75	226.6	2.58	1.45	1472.
120	4.56	32.89	119	26.08	195.3	2.79	1.69	1468.
130	4.48	32.98	129	26.16	187.8	2.98	1.93	1468.
140	4.37	33.25	139	26.38	166.5	3.16	2.18	1468.
150	4.39	33.41	149	26.51	154.8	3.32	2.42	1469.
160	4.39	33.48	159	26.56	149.7	3.47	2.66	1469.
170	4.46	33.60	169	26.65	141.5	3.62	2.90	1470.
180	4.50	33.65	179	26.68	138.3	3.76	3.15	1470.
190	4.47	33.68	189	26.71	135.8	3.90	3.41	1470.
200	4.41	33.69	199	26.73	134.5	4.03	3.68	1470.
210	4.35	33.71	209	26.75	132.4	4.16	3.95	1470.
220	4.31	33.72	218	26.76	131.2	4.30	4.24	1470.
230	4.28	33.73	228	26.77	130.4	4.43	4.54	1470.
240	4.24	33.74	238	26.78	129.2	4.56	4.85	1470.
250	4.24	33.76	248	26.80	128.2	4.68	5.18	1470.
260	4.31	33.79	258	26.81	126.8	4.81	5.51	1471.
270	4.31	33.79	268	26.82	126.6	4.94	5.85	1471.
280	4.28	33.80	278	26.83	125.6	5.06	6.20	1471.
290	4.26	33.82	288	26.84	124.0	5.19	6.56	1471.
300	4.25	33.83	298	26.85	123.2	5.31	6.93	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 40

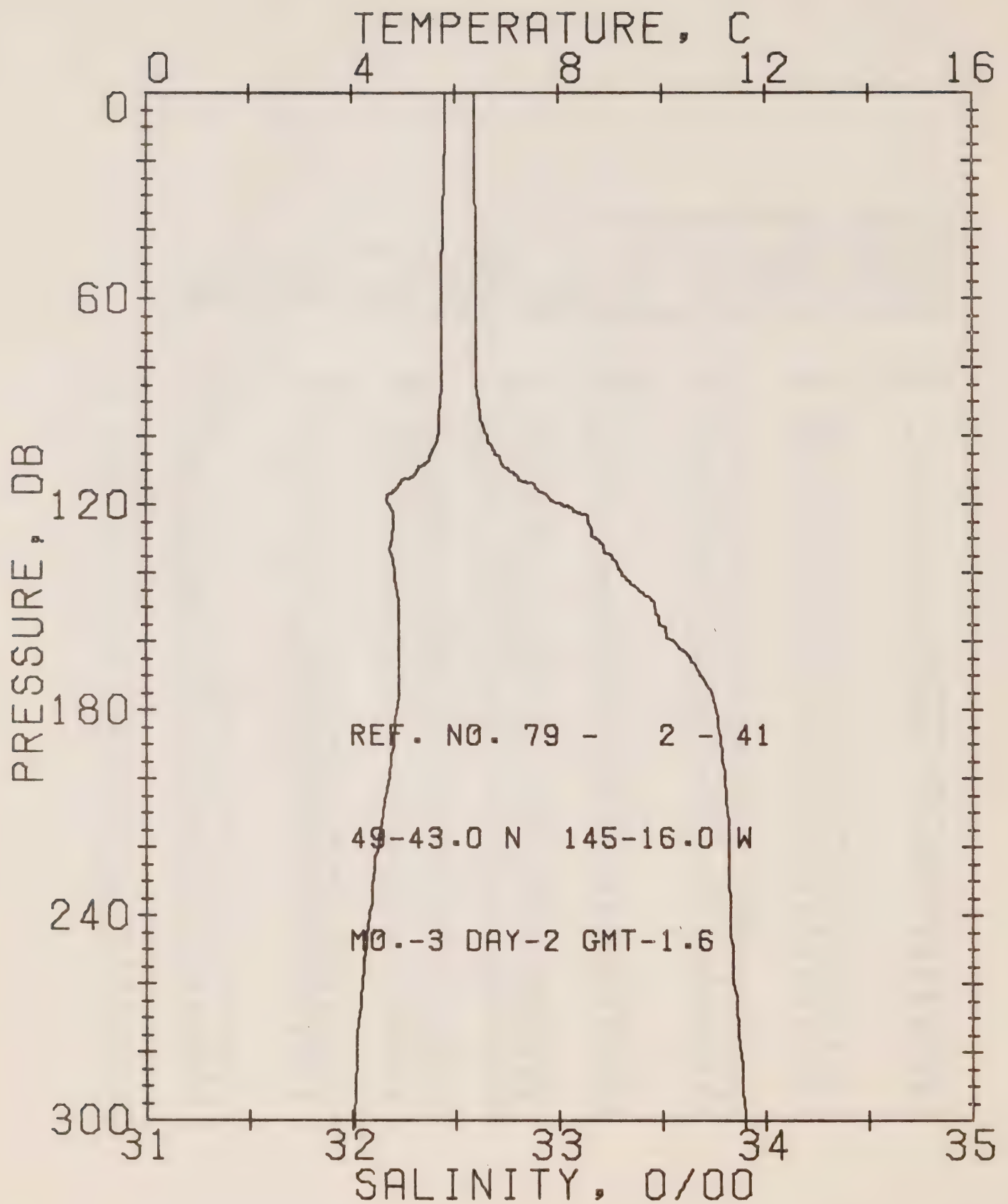
DATE 1/ 3/79

POSITION 49-43.0N, 145- .0W GMT 23.6 STATION C1

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.60	0	25.73	227.5	.00	.00	1470.
10	5.62	32.60	10	25.73	227.5	.23	.01	1471.
20	5.62	32.60	20	25.73	227.6	.46	.05	1471.
30	5.61	32.60	30	25.73	227.6	.68	.10	1471.
40	5.61	32.60	40	25.73	227.7	.91	.19	1471.
50	5.60	32.60	50	25.73	227.7	1.14	.29	1471.
60	5.60	32.60	60	25.73	227.8	1.37	.42	1471.
70	5.60	32.60	70	25.73	227.8	1.59	.57	1471.
80	5.59	32.60	79	25.74	227.6	1.82	.74	1472.
90	5.60	32.61	89	25.74	227.3	2.05	.94	1472.
100	5.59	32.62	99	25.75	226.6	2.28	1.16	1472.
110	5.59	32.63	109	25.75	226.2	2.50	1.40	1472.
120	5.28	32.96	119	26.05	197.8	2.72	1.66	1471.
130	4.97	33.22	129	26.29	175.1	2.90	1.89	1471.
140	4.89	33.41	139	26.45	160.1	3.07	2.12	1471.
150	4.87	33.58	149	26.59	147.2	3.22	2.35	1471.
160	4.62	33.64	159	26.66	140.1	3.36	2.57	1470.
170	4.47	33.70	169	26.73	134.1	3.50	2.80	1470.
180	4.45	33.74	179	26.76	131.2	3.63	3.04	1470.
190	4.44	33.76	189	26.78	129.3	3.77	3.28	1470.
200	4.45	33.78	199	26.79	128.2	3.89	3.54	1470.
210	4.36	33.78	209	26.80	127.3	4.02	3.81	1470.
220	4.42	33.81	218	26.82	125.8	4.15	4.08	1471.
230	4.28	33.82	228	26.84	123.7	4.27	4.37	1470.
240	4.29	33.84	238	26.86	122.1	4.40	4.66	1470.
250	4.28	33.86	248	26.87	120.9	4.52	4.97	1471.
260	4.24	33.86	258	26.88	120.5	4.64	5.28	1471.
270	4.19	33.86	268	26.88	120.1	4.76	5.61	1471.
280	4.11	33.87	278	26.90	118.5	4.88	5.94	1470.
290	4.08	33.89	288	26.92	116.9	4.99	6.28	1470.
300	4.05	33.89	298	26.92	116.5	5.11	6.63	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 41

DATE 2/ 3/79

POSITION 49-43.0N, 145-16.0W

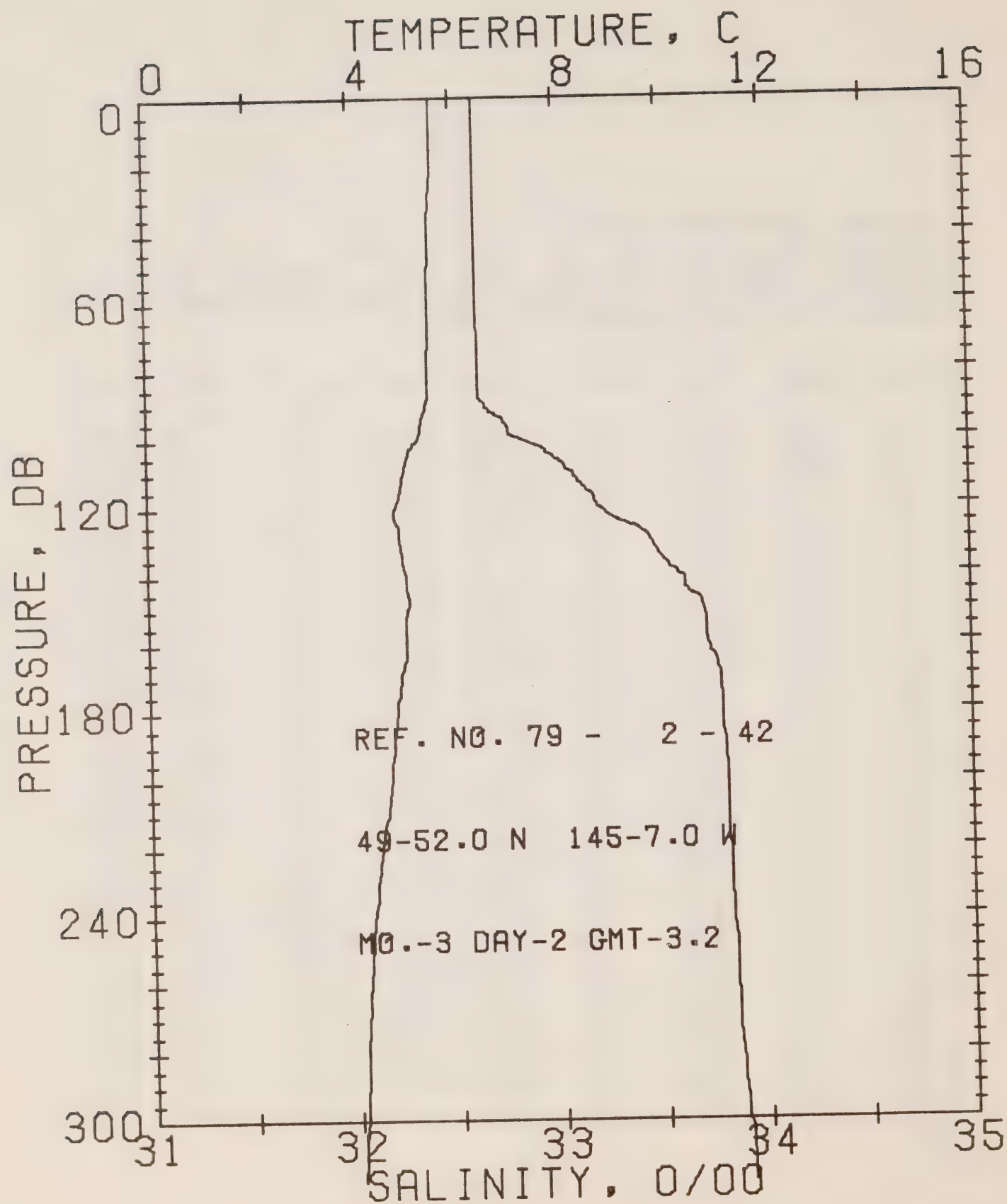
GMT 1.6

STATION W4

RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.59	0	25.70	230.3	.00	.00	1471.
10	5.80	32.59	10	25.70	230.3	.23	.01	1471.
20	5.79	32.59	20	25.70	230.3	.46	.05	1471.
30	5.77	32.59	30	25.70	230.2	.69	.11	1471.
40	5.75	32.60	40	25.71	229.3	.92	.19	1472.
50	5.74	32.60	50	25.71	229.3	1.15	.29	1472.
60	5.74	32.60	60	25.71	229.4	1.38	.42	1472.
70	5.73	32.60	70	25.72	229.3	1.61	.57	1472.
80	5.72	32.60	79	25.72	229.4	1.84	.75	1472.
90	5.70	32.61	89	25.73	228.5	2.07	.95	1472.
100	5.66	32.65	99	25.76	225.1	2.29	1.17	1472.
110	5.24	32.76	109	25.90	212.3	2.51	1.40	1471.
120	4.73	33.01	119	26.15	188.1	2.71	1.64	1469.
130	4.77	33.18	129	26.28	175.9	2.89	1.87	1470.
140	4.82	33.30	139	26.37	167.5	3.07	2.10	1470.
150	4.91	33.46	149	26.49	156.3	3.23	2.34	1471.
160	4.91	33.55	159	26.56	150.0	3.38	2.58	1471.
170	4.92	33.68	169	26.66	140.5	3.53	2.83	1472.
180	4.86	33.76	179	26.73	133.9	3.66	3.07	1472.
190	4.79	33.78	189	26.76	131.8	3.79	3.32	1472.
200	4.71	33.80	199	26.78	129.5	3.93	3.58	1471.
210	4.58	33.81	209	26.81	127.0	4.05	3.85	1471.
220	4.49	33.82	218	26.82	125.8	4.18	4.12	1471.
230	4.40	33.82	228	26.83	124.9	4.31	4.41	1471.
240	4.31	33.83	238	26.85	123.3	4.43	4.71	1470.
250	4.25	33.84	248	26.86	122.0	4.55	5.02	1470.
260	4.18	33.84	258	26.87	121.4	4.67	5.33	1470.
270	4.12	33.86	268	26.90	118.9	4.79	5.66	1470.
280	4.07	33.88	278	26.91	117.4	4.91	5.99	1470.
290	4.06	33.89	288	26.92	116.6	5.03	6.33	1470.
300	4.02	33.90	298	26.93	115.6	5.14	6.68	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 42

DATE 2/ 3/79

POSITION 49-52.0N, 145- 7.0W

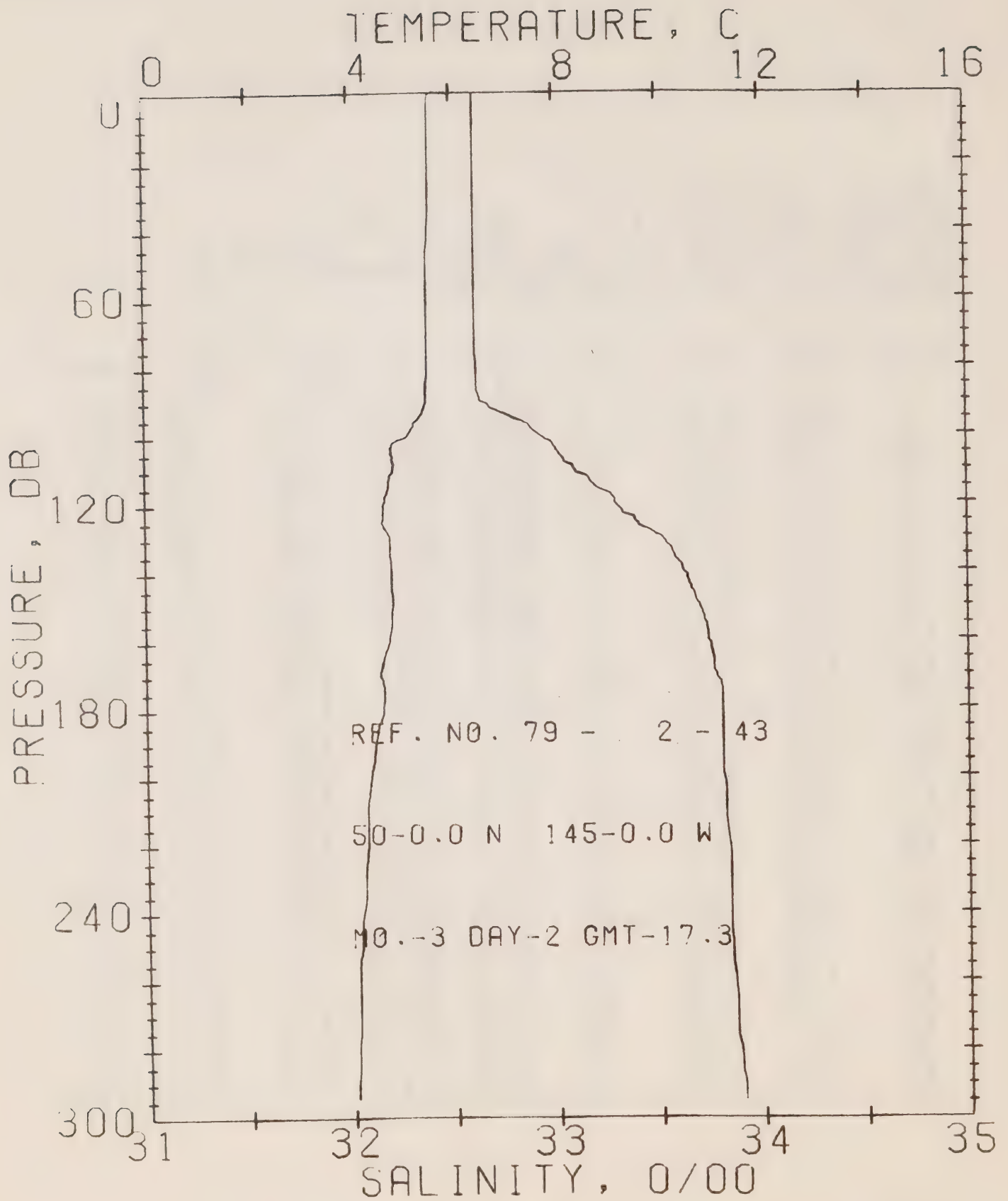
GMT 3.2

STATION W3

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.61	0	25.74	226.8	.00	.00	1470.
10	5.63	32.61	10	25.74	226.9	.23	.01	1471.
20	5.63	32.61	20	25.74	226.9	.45	.05	1471.
30	5.57	32.61	30	25.74	226.4	.68	.10	1471.
40	5.54	32.61	40	25.75	226.2	.91	.18	1471.
50	5.53	32.61	50	25.75	226.2	1.13	.29	1471.
60	5.53	32.61	60	25.75	226.2	1.36	.42	1471.
70	5.53	32.62	70	25.75	225.6	1.59	.57	1471.
80	5.49	32.62	79	25.76	225.2	1.81	.74	1471.
90	5.44	32.65	89	25.79	222.5	2.04	.93	1471.
100	5.29	32.82	99	25.94	208.2	2.25	1.14	1471.
110	4.98	33.07	109	26.17	186.2	2.45	1.35	1470.
120	4.83	33.19	119	26.28	175.7	2.63	1.56	1470.
130	4.92	33.45	129	26.48	157.3	2.79	1.77	1471.
140	5.03	33.58	139	26.57	148.9	2.95	1.98	1472.
150	5.05	33.70	149	26.66	140.2	3.09	2.20	1472.
160	5.01	33.72	159	26.68	138.4	3.23	2.42	1472.
170	4.92	33.78	169	26.74	133.0	3.37	2.65	1472.
180	4.82	33.79	179	26.76	131.3	3.50	2.88	1472.
190	4.75	33.80	189	26.78	129.9	3.63	3.13	1471.
200	4.69	33.81	199	26.79	128.5	3.76	3.38	1471.
210	4.60	33.81	208	26.80	127.7	3.89	3.65	1471.
220	4.48	33.82	218	26.82	125.7	4.01	3.93	1471.
230	4.38	33.82	228	26.83	124.7	4.14	4.22	1471.
240	4.31	33.83	238	26.85	123.3	4.26	4.51	1470.
250	4.26	33.84	248	26.86	122.2	4.38	4.82	1470.
260	4.22	33.84	258	26.87	121.6	4.51	5.14	1470.
270	4.17	33.85	268	26.88	120.7	4.63	5.46	1470.
280	4.14	33.86	278	26.89	119.7	4.75	5.80	1470.
290	4.12	33.87	288	26.90	118.6	4.87	6.15	1471.
300	4.10	33.88	298	26.91	117.5	4.99	6.50	1471.



OFFSHORE OCEANOGRAPHY GROUP

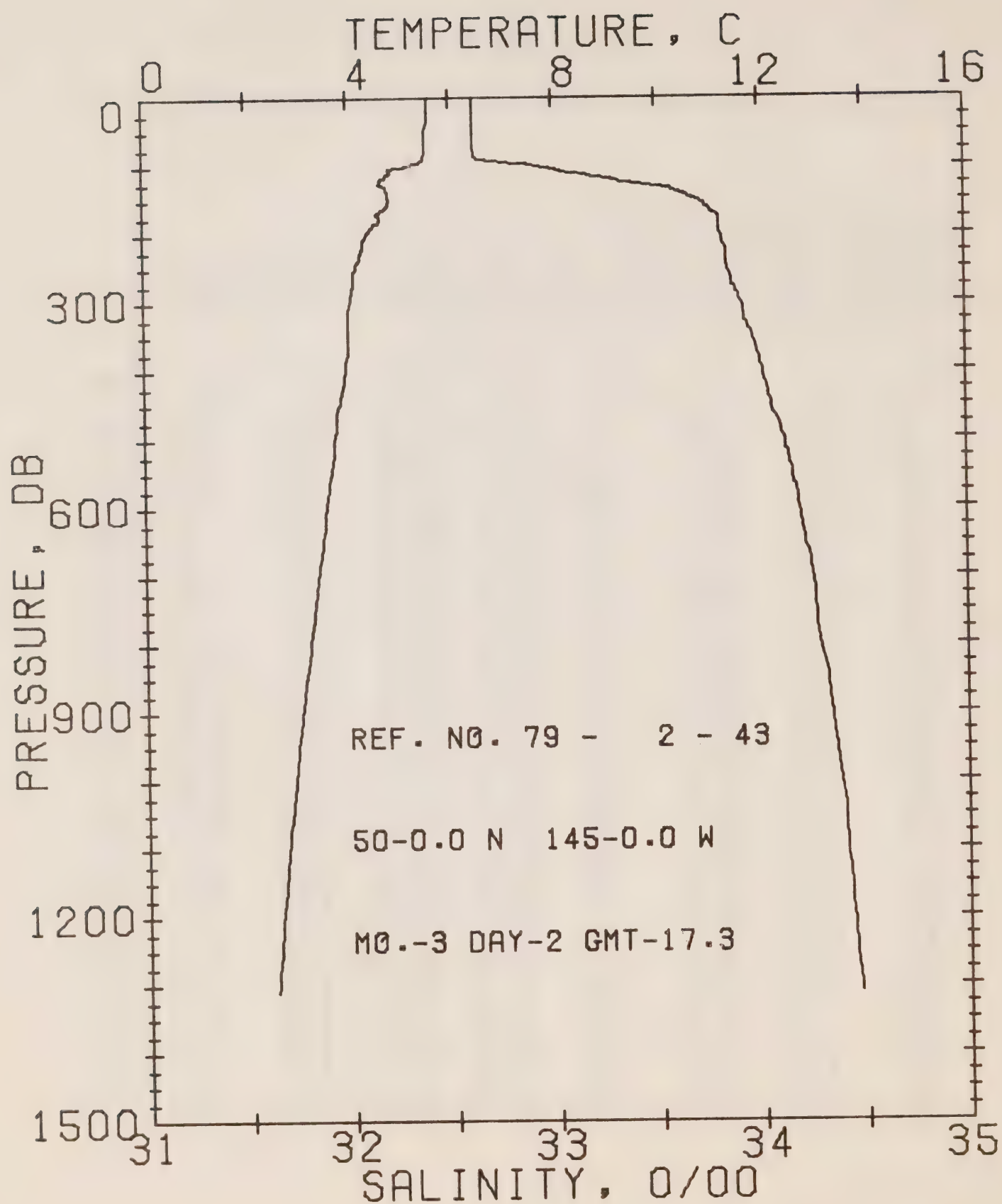
REFERENCE NO. 79- 2- 43 DATE 2/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 145 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.61	0	25.74	226.3	.00	.00	1470.
10	5.57	32.61	10	25.74	226.2	.23	.01	1470.
20	5.58	32.61	20	25.74	226.4	.45	.05	1471.
30	5.57	32.61	30	25.74	226.4	.68	.10	1471.
40	5.55	32.61	40	25.74	226.3	.91	.18	1471.
50	5.53	32.61	50	25.75	226.1	1.13	.29	1471.
60	5.53	32.61	60	25.75	226.2	1.36	.42	1471.
70	5.53	32.61	70	25.75	226.3	1.58	.57	1471.
80	5.51	32.62	79	25.76	225.5	1.81	.74	1471.
90	5.50	32.63	89	25.77	224.7	2.04	.93	1471.
100	5.15	32.92	99	26.04	199.2	2.25	1.14	1470.
110	4.85	33.09	109	26.20	183.3	2.44	1.34	1470.
120	4.67	33.29	119	26.38	166.5	2.61	1.54	1469.
130	4.77	33.52	129	26.55	150.4	2.77	1.75	1470.
140	4.80	33.62	139	26.63	143.4	2.92	1.95	1471.
150	4.82	33.70	149	26.69	137.7	3.06	2.16	1471.
160	4.75	33.74	159	26.73	134.0	3.19	2.37	1471.
170	4.56	33.78	169	26.78	129.1	3.32	2.59	1470.
180	4.62	33.81	179	26.80	127.6	3.45	2.82	1471.
190	4.47	33.81	189	26.81	126.1	3.58	3.06	1470.
200	4.36	33.81	199	26.83	124.8	3.70	3.31	1470.
210	4.29	33.82	208	26.84	123.6	3.83	3.57	1470.
220	4.29	33.84	218	26.86	122.3	3.95	3.84	1470.
230	4.24	33.84	228	26.86	121.8	4.07	4.12	1470.
240	4.20	33.84	238	26.87	121.4	4.19	4.41	1470.
250	4.15	33.85	248	26.88	120.2	4.31	4.71	1470.
260	4.10	33.86	258	26.89	119.1	4.43	5.02	1470.
270	4.10	33.87	268	26.90	118.4	4.55	5.34	1470.
280	4.09	33.88	278	26.91	117.4	4.67	5.67	1470.
290	4.06	33.90	288	26.93	115.9	4.79	6.01	1470.
300	4.03	33.91	298	26.94	114.9	4.90	6.36	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 43

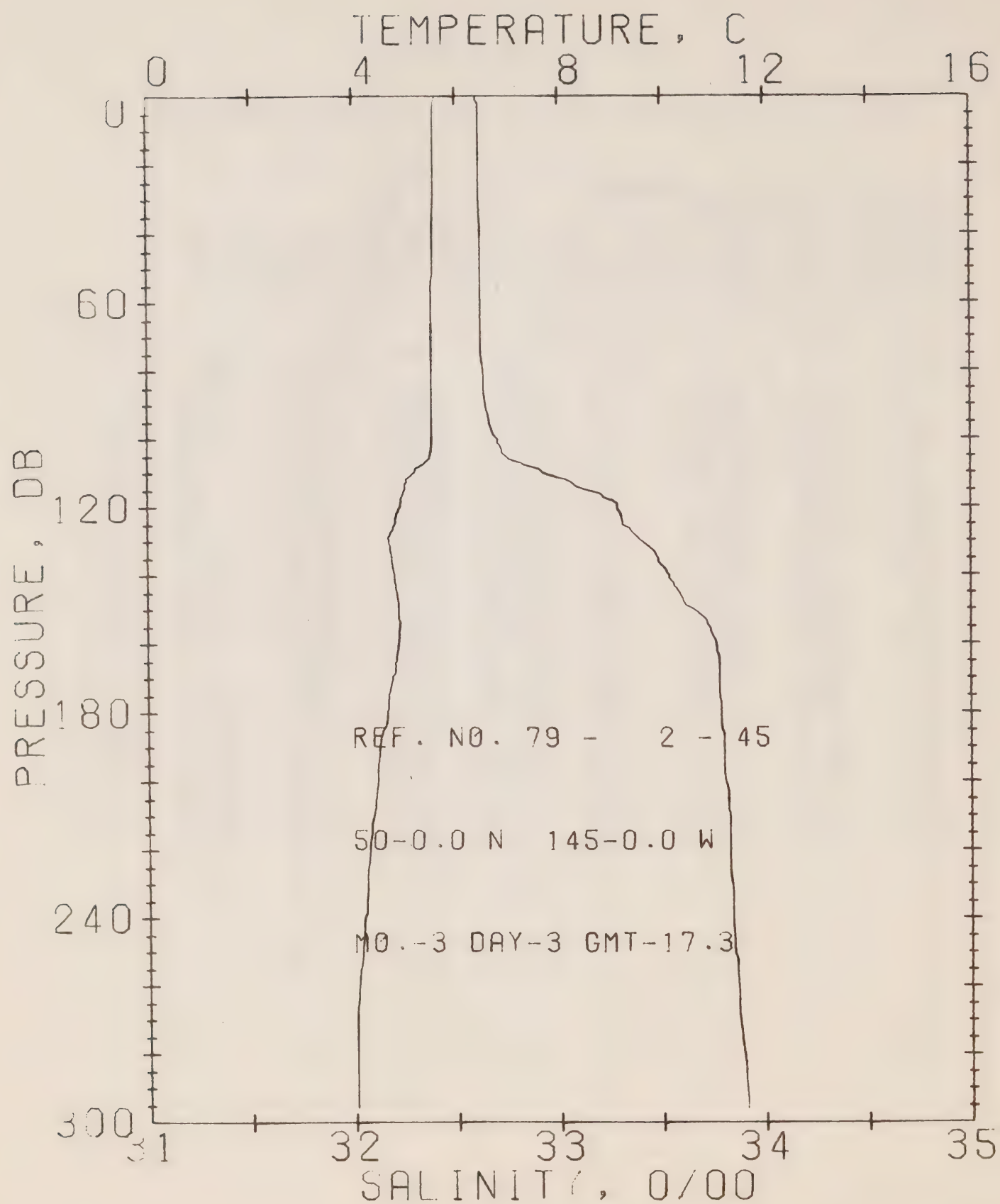
DATE 2/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 241 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.61	0	25.74	226.3	.00	.00	1470.
10	5.57	32.61	10	25.74	226.2	.23	.01	1470.
20	5.58	32.61	20	25.74	226.4	.45	.05	1471.
30	5.57	32.61	30	25.74	226.4	.68	.10	1471.
50	5.53	32.61	50	25.75	226.1	1.13	.29	1471.
75	5.52	32.61	75	25.75	226.3	1.70	.65	1471.
100	5.15	32.92	99	26.04	199.2	2.25	1.14	1470.
125	4.63	33.39	124	26.46	158.6	2.69	1.65	1469.
150	4.82	33.70	149	26.69	137.7	3.06	2.16	1471.
175	4.63	33.81	174	26.80	127.6	3.39	2.70	1471.
200	4.36	33.81	199	26.83	124.8	3.70	3.31	1470.
225	4.27	33.84	223	26.86	122.0	4.01	3.97	1470.
250	4.15	33.85	248	26.88	120.2	4.31	4.71	1470.
300	4.03	33.91	298	26.94	114.9	4.90	6.36	1470.
400	3.94	34.01	397	27.03	107.3	6.01	10.31	1472.
500	3.73	34.11	496	27.13	98.0	7.04	15.03	1473.
600	3.55	34.18	595	27.20	91.9	7.99	20.35	1474.
800	3.20	34.28	793	27.32	82.0	9.72	32.66	1476.
1000	2.87	34.38	990	27.42	72.7	11.26	46.72	1478.
1200	2.59	34.44	1188	27.49	66.5	12.65	62.28	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 45

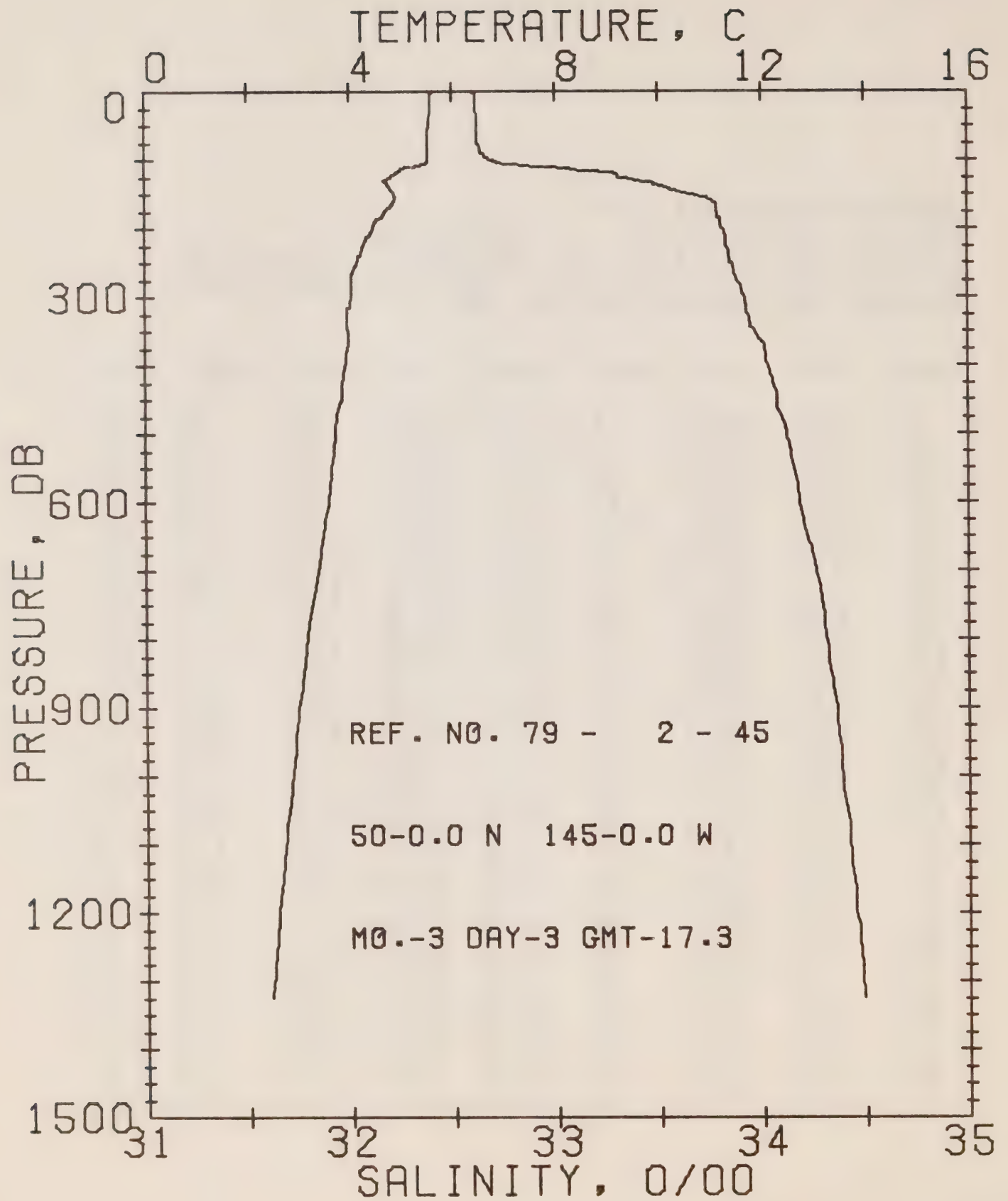
DATE 3/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 125 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.60	0	25.73	227.5	.00	.00	1470.
10	5.57	32.61	10	25.74	226.2	.23	.01	1470.
20	5.56	32.61	20	25.74	226.2	.45	.05	1470.
30	5.56	32.61	30	25.74	226.2	.68	.10	1471.
40	5.55	32.62	40	25.75	225.5	.90	.18	1471.
50	5.55	32.62	50	25.75	225.6	1.13	.29	1471.
60	5.52	32.62	60	25.76	225.4	1.36	.41	1471.
70	5.52	32.62	70	25.76	225.5	1.58	.56	1471.
80	5.51	32.63	79	25.76	224.9	1.81	.74	1471.
90	5.52	32.64	89	25.77	224.2	2.03	.93	1471.
100	5.51	32.70	99	25.82	219.7	2.25	1.15	1472.
110	5.16	32.92	109	26.03	199.4	2.47	1.37	1471.
120	4.91	33.28	119	26.35	169.8	2.65	1.59	1470.
130	4.69	33.41	129	26.47	157.8	2.81	1.80	1470.
140	4.80	33.53	139	26.56	150.1	2.97	2.01	1471.
150	4.88	33.65	149	26.64	142.1	3.11	2.23	1471.
160	4.87	33.76	159	26.73	133.5	3.25	2.44	1471.
170	4.76	33.78	169	26.76	131.3	3.38	2.66	1471.
180	4.65	33.79	179	26.78	129.4	3.51	2.90	1471.
190	4.50	33.80	189	26.80	127.1	3.64	3.14	1470.
200	4.45	33.81	199	26.82	126.0	3.77	3.39	1470.
210	4.36	33.83	208	26.84	123.5	3.89	3.65	1470.
220	4.28	33.83	218	26.85	122.8	4.02	3.92	1470.
230	4.24	33.84	228	26.86	122.0	4.14	4.20	1470.
240	4.19	33.84	238	26.87	121.3	4.26	4.49	1470.
250	4.14	33.85	248	26.88	120.1	4.38	4.79	1470.
260	4.06	33.87	258	26.90	118.2	4.50	5.10	1470.
270	4.03	33.87	268	26.91	117.3	4.62	5.42	1470.
280	4.02	33.89	278	26.93	116.1	4.73	5.75	1470.
290	4.02	33.90	288	26.94	115.1	4.85	6.08	1470.
300	4.02	33.92	298	26.95	114.3	4.96	6.43	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 45

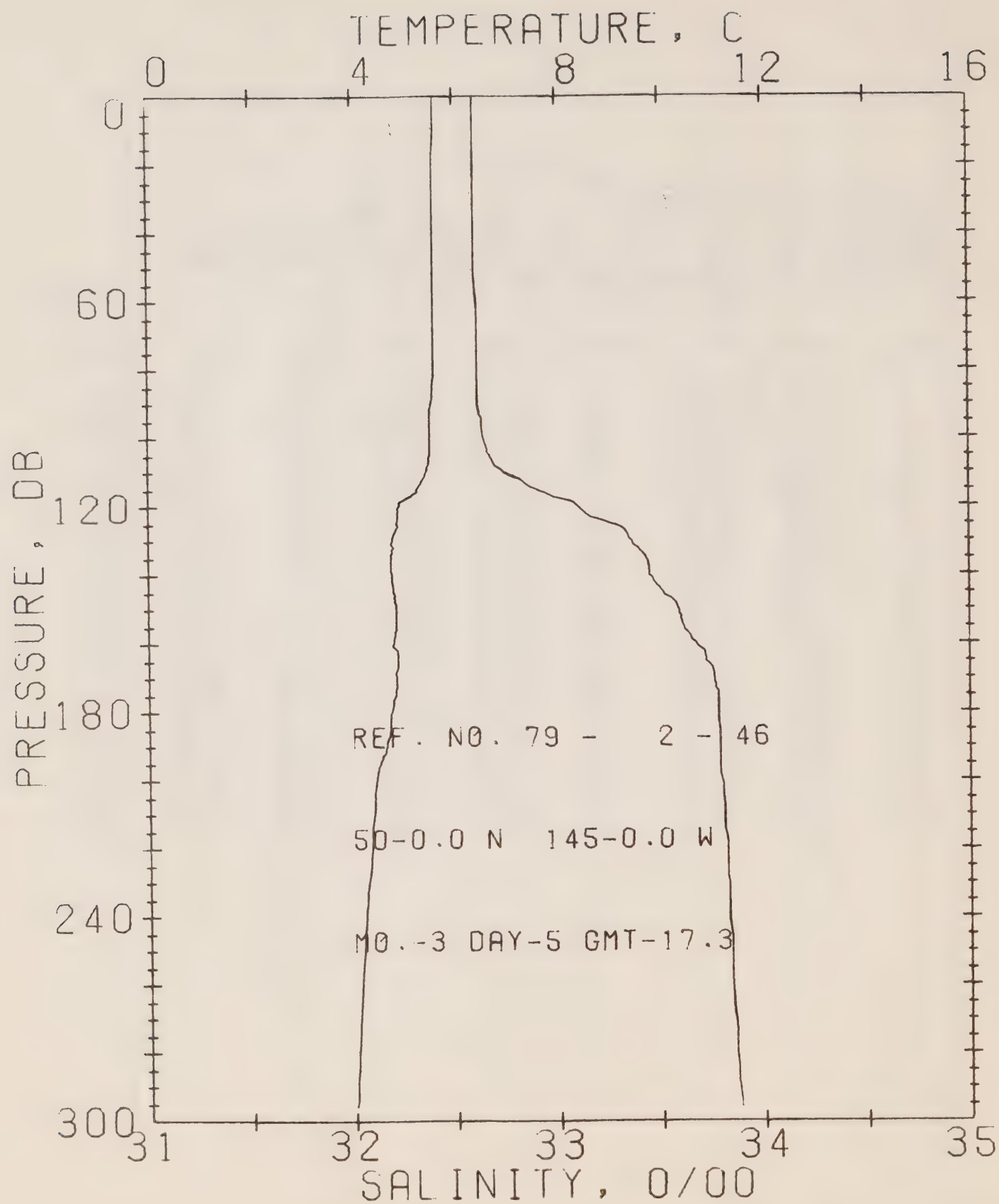
DATE 3/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 217 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.60	0	25.73	227.5	.00	.00	1470.
10	5.57	32.61	10	25.74	226.2	.23	.01	1470.
20	5.56	32.61	20	25.74	226.2	.45	.05	1470.
30	5.56	32.61	30	25.74	226.2	.68	.10	1471.
50	5.55	32.62	50	25.75	225.6	1.13	.29	1471.
75	5.52	32.62	75	25.76	225.5	1.69	.65	1471.
100	5.51	32.70	99	25.82	219.7	2.25	1.15	1472.
125	4.80	33.31	124	26.38	166.4	2.73	1.69	1470.
150	4.88	33.65	149	26.64	142.1	3.11	2.23	1471.
175	4.67	33.78	174	26.77	130.3	3.45	2.78	1471.
200	4.45	33.81	199	26.82	126.0	3.77	3.39	1470.
225	4.25	33.83	223	26.85	122.6	4.08	4.06	1470.
250	4.14	33.85	248	26.88	120.1	4.38	4.79	1470.
300	4.02	33.92	298	26.95	114.3	4.96	6.43	1470.
400	3.90	34.03	397	27.05	105.6	6.07	10.35	1472.
500	3.70	34.12	496	27.14	97.5	7.08	15.00	1473.
600	3.57	34.18	595	27.20	92.3	8.03	20.31	1474.
800	3.14	34.31	793	27.35	79.3	9.73	32.42	1475.
1000	2.85	34.39	990	27.43	71.9	11.24	46.20	1478.
1200	2.57	34.45	1188	27.51	65.3	12.60	61.47	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 46

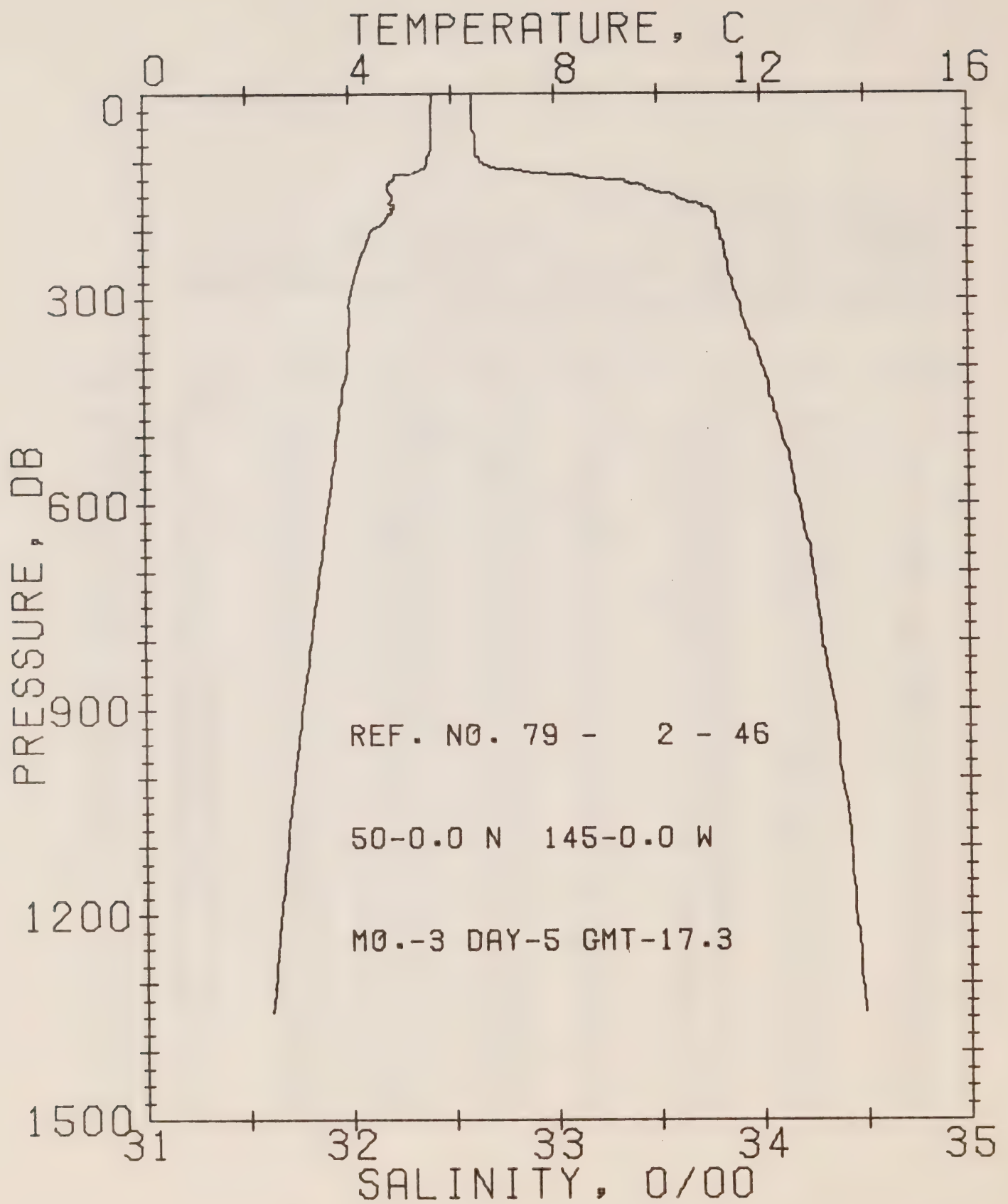
DATE 5/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 129 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.62	32.60	0	25.73	227.4	.00	.00	1470.
10	5.62	32.60	10	25.73	227.5	.23	.01	1471.
20	5.61	32.60	20	25.73	227.5	.45	.05	1471.
30	5.61	32.60	30	25.73	227.6	.68	.10	1471.
40	5.61	32.60	40	25.73	227.7	.91	.19	1471.
50	5.61	32.60	50	25.73	227.8	1.14	.29	1471.
60	5.61	32.61	60	25.74	227.3	1.37	.42	1471.
70	5.60	32.61	70	25.74	227.2	1.59	.57	1471.
80	5.59	32.61	79	25.74	227.1	1.82	.74	1472.
90	5.54	32.61	89	25.75	226.7	2.05	.94	1472.
100	5.51	32.64	99	25.77	224.2	2.27	1.16	1472.
110	5.45	32.74	109	25.86	216.1	2.49	1.39	1472.
120	4.90	33.10	119	26.21	183.2	2.69	1.63	1470.
130	4.77	33.36	129	26.43	162.4	2.87	1.85	1470.
140	4.77	33.45	139	26.50	155.8	3.02	2.06	1470.
150	4.85	33.59	149	26.59	146.6	3.17	2.29	1471.
160	4.79	33.67	159	26.67	139.7	3.32	2.52	1471.
170	4.85	33.76	169	26.73	133.7	3.46	2.74	1472.
180	4.75	33.78	179	26.76	131.2	3.59	2.98	1471.
190	4.63	33.79	189	26.78	129.3	3.72	3.23	1471.
200	4.44	33.80	199	26.81	126.8	3.85	3.48	1470.
210	4.38	33.81	209	26.82	125.3	3.97	3.74	1470.
220	4.33	33.82	218	26.84	124.2	4.10	4.02	1470.
230	4.28	33.83	228	26.85	122.9	4.22	4.30	1470.
240	4.22	33.83	238	26.86	122.4	4.34	4.60	1470.
250	4.17	33.84	248	26.87	121.2	4.46	4.90	1470.
260	4.13	33.84	258	26.88	120.7	4.59	5.21	1470.
270	4.09	33.86	268	26.89	119.4	4.71	5.54	1470.
280	4.05	33.86	278	26.90	118.7	4.83	5.87	1470.
290	4.03	33.87	288	26.91	117.6	4.94	6.21	1470.
300	3.99	33.89	298	26.93	116.2	5.06	6.57	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 46

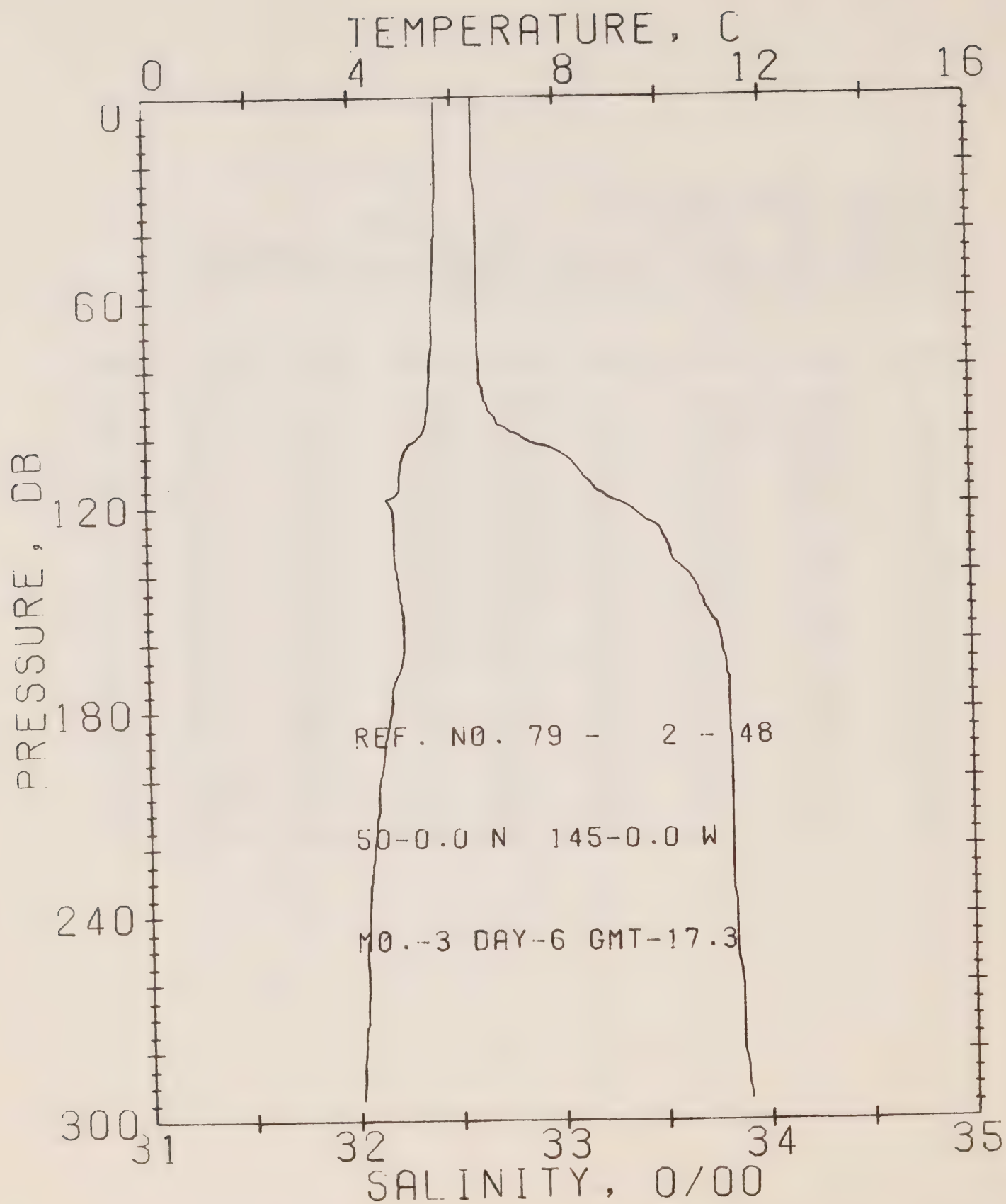
DATE 5/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 239 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.62	32.60	0	25.73	227.4	.00	.00	1470.
10	5.62	32.60	10	25.73	227.5	.23	.01	1471.
20	5.61	32.60	20	25.73	227.5	.45	.05	1471.
30	5.61	32.60	30	25.73	227.6	.68	.10	1471.
50	5.61	32.60	50	25.73	227.8	1.14	.29	1471.
75	5.60	32.61	75	25.74	227.2	1.71	.65	1472.
100	5.51	32.64	99	25.77	224.2	2.27	1.16	1472.
125	4.86	33.27	124	26.34	170.1	2.78	1.74	1470.
150	4.85	33.59	149	26.59	146.6	3.17	2.29	1471.
175	4.82	33.78	174	26.75	132.0	3.52	2.86	1471.
200	4.44	33.80	199	26.81	126.8	3.85	3.48	1470.
225	4.31	33.82	223	26.84	124.0	4.16	4.16	1470.
250	4.17	33.84	248	26.87	121.2	4.46	4.90	1470.
300	3.99	33.89	298	26.93	116.2	5.06	6.57	1470.
400	3.95	34.00	397	27.02	107.9	6.18	10.56	1472.
500	3.73	34.10	496	27.12	99.5	7.22	15.30	1473.
600	3.56	34.18	595	27.20	92.1	8.18	20.67	1474.
800	3.21	34.29	793	27.32	81.8	9.91	32.99	1476.
1000	2.87	34.38	990	27.42	72.7	11.44	47.02	1478.
1200	2.60	34.45	1188	27.50	66.0	12.82	62.42	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 48

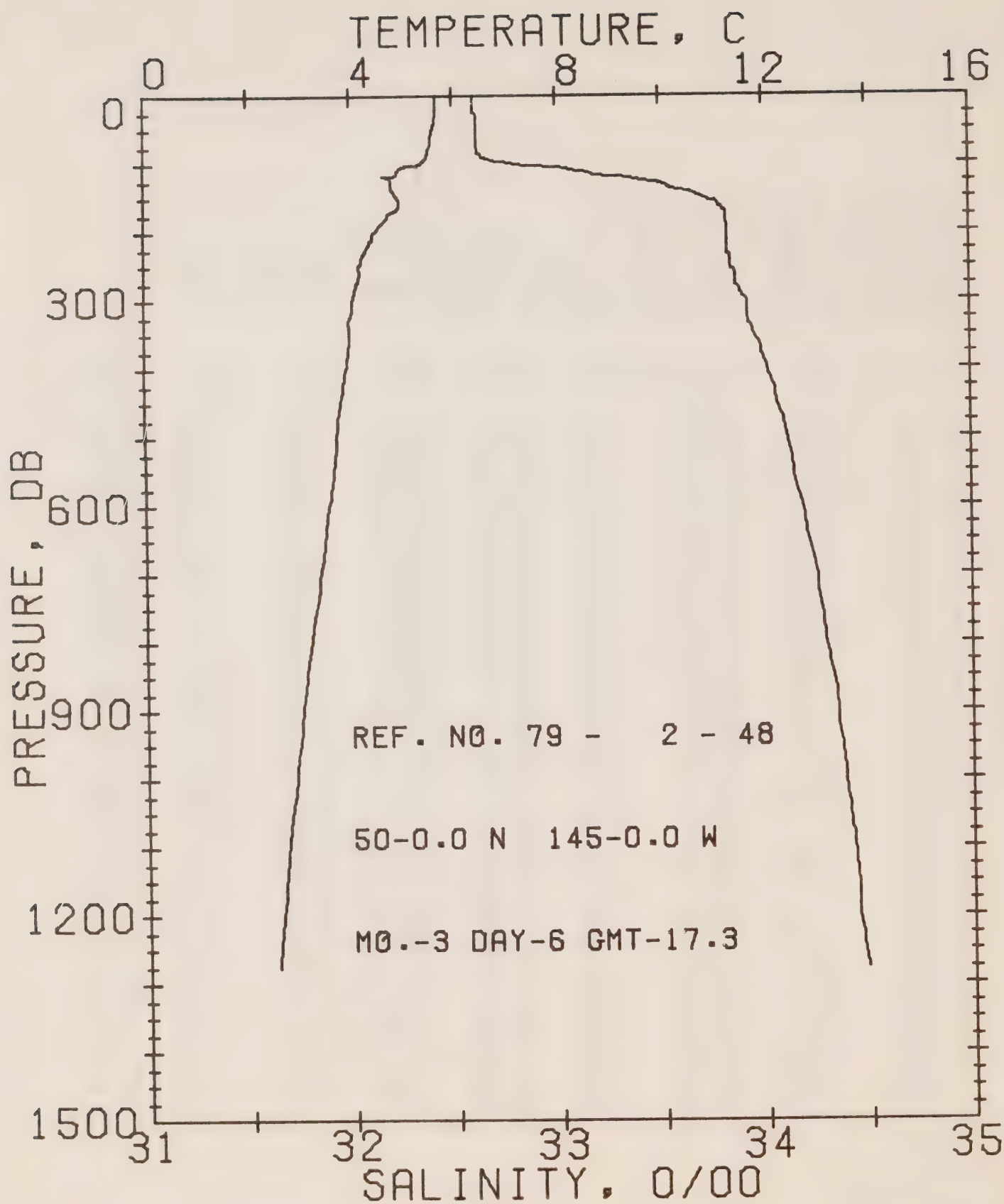
DATE 6/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.60	0	25.72	228.0	.00	.00	1471.
10	5.67	32.60	10	25.72	228.1	.23	.01	1471.
20	5.67	32.60	20	25.72	228.2	.46	.05	1471.
30	5.67	32.61	30	25.73	227.5	.68	.10	1471.
40	5.65	32.61	40	25.73	227.4	.91	.19	1471.
50	5.62	32.61	50	25.74	227.1	1.14	.29	1471.
60	5.58	32.61	60	25.74	226.8	1.37	.42	1471.
70	5.56	32.61	70	25.74	226.7	1.59	.57	1471.
80	5.52	32.62	79	25.76	225.5	1.82	.74	1471.
90	5.48	32.65	89	25.78	223.0	2.04	.94	1471.
100	5.28	32.83	99	25.95	207.4	2.26	1.15	1471.
110	4.92	33.11	109	26.21	182.9	2.45	1.35	1470.
120	4.75	33.34	119	26.41	163.6	2.63	1.56	1470.
130	4.79	33.52	129	26.55	150.6	2.78	1.75	1470.
140	4.86	33.63	139	26.63	143.3	2.93	1.96	1471.
150	4.94	33.71	149	26.68	138.3	3.07	2.17	1471.
160	4.95	33.79	159	26.74	132.8	3.21	2.38	1472.
170	4.79	33.82	169	26.79	128.6	3.34	2.60	1471.
180	4.70	33.82	179	26.80	127.7	3.47	2.83	1471.
190	4.56	33.83	189	26.82	125.5	3.59	3.07	1471.
200	4.46	33.83	199	26.83	124.6	3.72	3.32	1470.
210	4.42	33.83	208	26.84	124.2	3.84	3.58	1470.
220	4.33	33.83	218	26.84	123.4	3.97	3.85	1470.
230	4.27	33.83	228	26.85	122.8	4.09	4.13	1470.
240	4.22	33.84	238	26.86	121.6	4.21	4.42	1470.
250	4.17	33.84	248	26.87	121.0	4.33	4.73	1470.
260	4.20	33.87	258	26.89	119.4	4.45	5.04	1470.
270	4.17	33.87	268	26.89	119.1	4.57	5.36	1470.
280	4.10	33.87	278	26.90	118.1	4.69	5.69	1470.
290	4.07	33.89	288	26.92	116.5	4.81	6.03	1470.
300	4.03	33.92	298	26.94	114.4	4.92	6.38	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 48

DATE 6/ 3/79

POSITION 50- .0N, 145- .0W

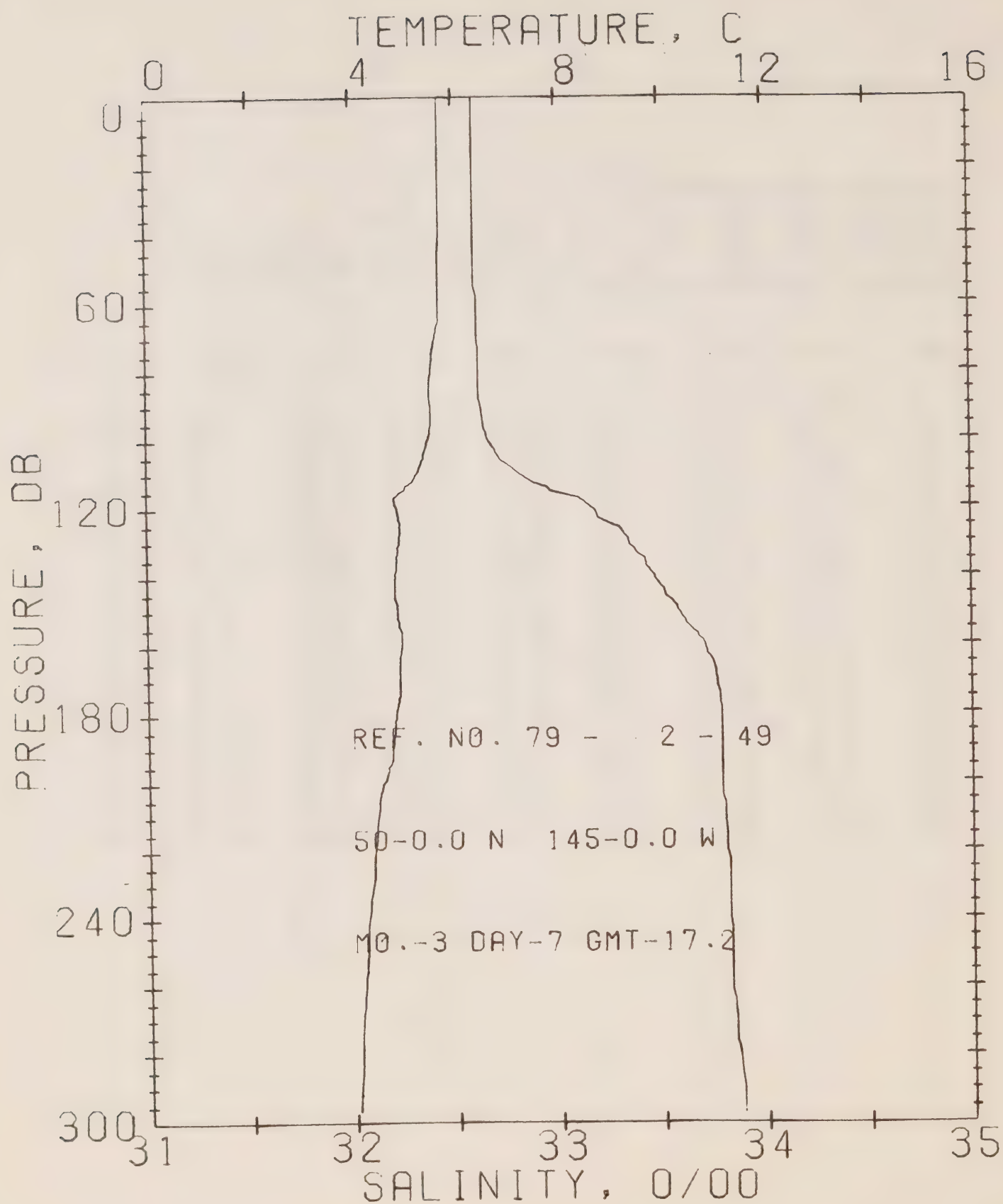
GMT 17.3

STATION P

RESULTS OF STP CAST 228 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.60	0	25.72	228.0	.00	.00	1471.
10	5.67	32.60	10	25.72	228.1	.23	.01	1471.
20	5.67	32.60	20	25.72	228.2	.46	.05	1471.
30	5.67	32.61	30	25.73	227.5	.68	.10	1471.
50	5.62	32.61	50	25.74	227.1	1.14	.29	1471.
75	5.55	32.61	75	25.74	226.6	1.71	.65	1471.
100	5.28	32.83	99	25.95	207.4	2.26	1.15	1471.
125	4.80	33.47	124	26.51	154.4	2.71	1.66	1470.
150	4.94	33.71	149	26.68	138.3	3.07	2.17	1471.
175	4.73	33.82	174	26.79	127.9	3.40	2.71	1471.
200	4.46	33.83	199	26.83	124.6	3.72	3.32	1470.
225	4.30	33.83	223	26.85	123.1	4.03	3.99	1470.
250	4.17	33.84	248	26.87	121.0	4.33	4.73	1470.
300	4.03	33.92	298	26.94	114.4	4.92	6.38	1470.
400	3.89	34.01	397	27.03	106.7	6.03	10.33	1472.
500	3.72	34.11	496	27.13	98.6	7.06	15.02	1473.
600	3.56	34.18	595	27.20	92.3	8.01	20.37	1474.
800	3.19	34.29	793	27.33	81.2	9.74	32.68	1476.
1000	2.87	34.38	990	27.43	72.6	11.27	46.62	1478.
1200	2.60	34.44	1188	27.50	66.4	12.64	62.00	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 49

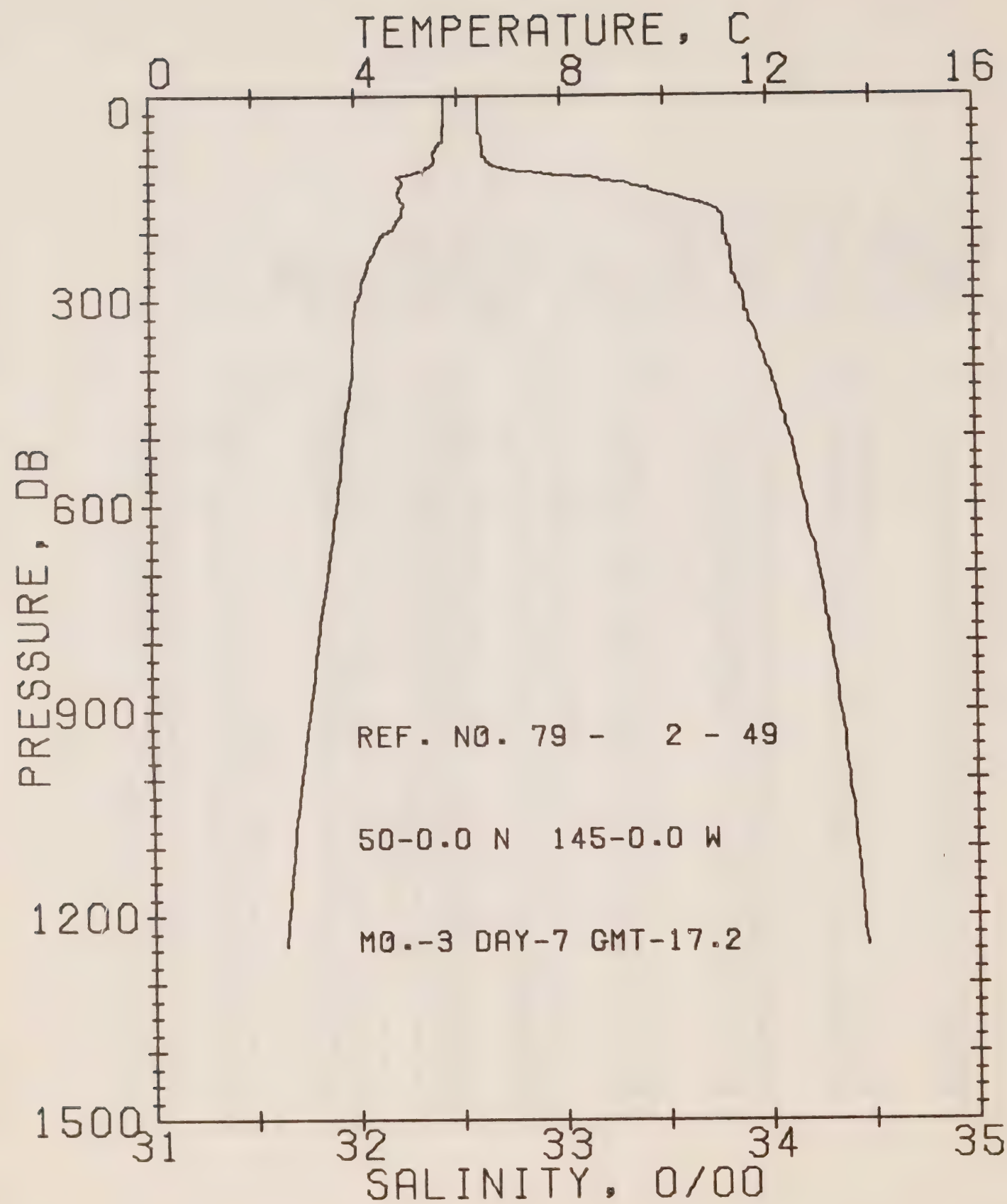
DATE 7/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.72	32.60	0	25.72	228.5	.00	.00	1471.
10	5.72	32.60	10	25.72	228.6	.23	.01	1471.
20	5.72	32.60	20	25.72	228.7	.46	.05	1471.
30	5.72	32.60	30	25.72	228.8	.69	.10	1471.
40	5.72	32.60	40	25.72	228.9	.91	.19	1471.
50	5.71	32.60	50	25.72	228.9	1.14	.29	1472.
60	5.70	32.61	60	25.73	228.2	1.37	.42	1472.
70	5.63	32.61	70	25.73	227.5	1.60	.57	1472.
80	5.54	32.62	79	25.75	225.8	1.83	.74	1471.
90	5.54	32.63	89	25.76	225.4	2.05	.94	1472.
100	5.49	32.66	99	25.79	222.5	2.28	1.16	1472.
110	5.27	32.81	109	25.93	208.9	2.49	1.39	1471.
120	4.85	33.16	119	26.26	178.2	2.69	1.61	1470.
130	4.92	33.34	129	26.39	165.5	2.86	1.83	1471.
140	4.83	33.47	139	26.51	154.9	3.02	2.05	1471.
150	4.88	33.58	149	26.59	147.3	3.17	2.28	1471.
160	4.97	33.70	159	26.68	139.0	3.31	2.50	1472.
170	4.90	33.77	169	26.74	133.5	3.45	2.73	1472.
180	4.85	33.79	179	26.76	131.6	3.58	2.97	1472.
190	4.77	33.79	189	26.77	130.8	3.71	3.22	1472.
200	4.60	33.79	199	26.78	129.1	3.84	3.48	1471.
210	4.47	33.80	209	26.81	127.0	3.97	3.74	1471.
220	4.39	33.81	218	26.82	125.5	4.10	4.02	1470.
230	4.36	33.82	228	26.83	124.5	4.22	4.30	1471.
240	4.28	33.82	238	26.84	123.8	4.35	4.60	1470.
250	4.23	33.83	248	26.86	122.6	4.47	4.91	1470.
260	4.19	33.83	258	26.86	122.2	4.59	5.23	1470.
270	4.13	33.85	268	26.88	120.2	4.71	5.55	1470.
280	4.11	33.86	278	26.89	119.1	4.83	5.89	1470.
290	4.08	33.88	288	26.91	117.6	4.95	6.23	1470.
300	4.02	33.88	298	26.92	117.0	5.07	6.59	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 49

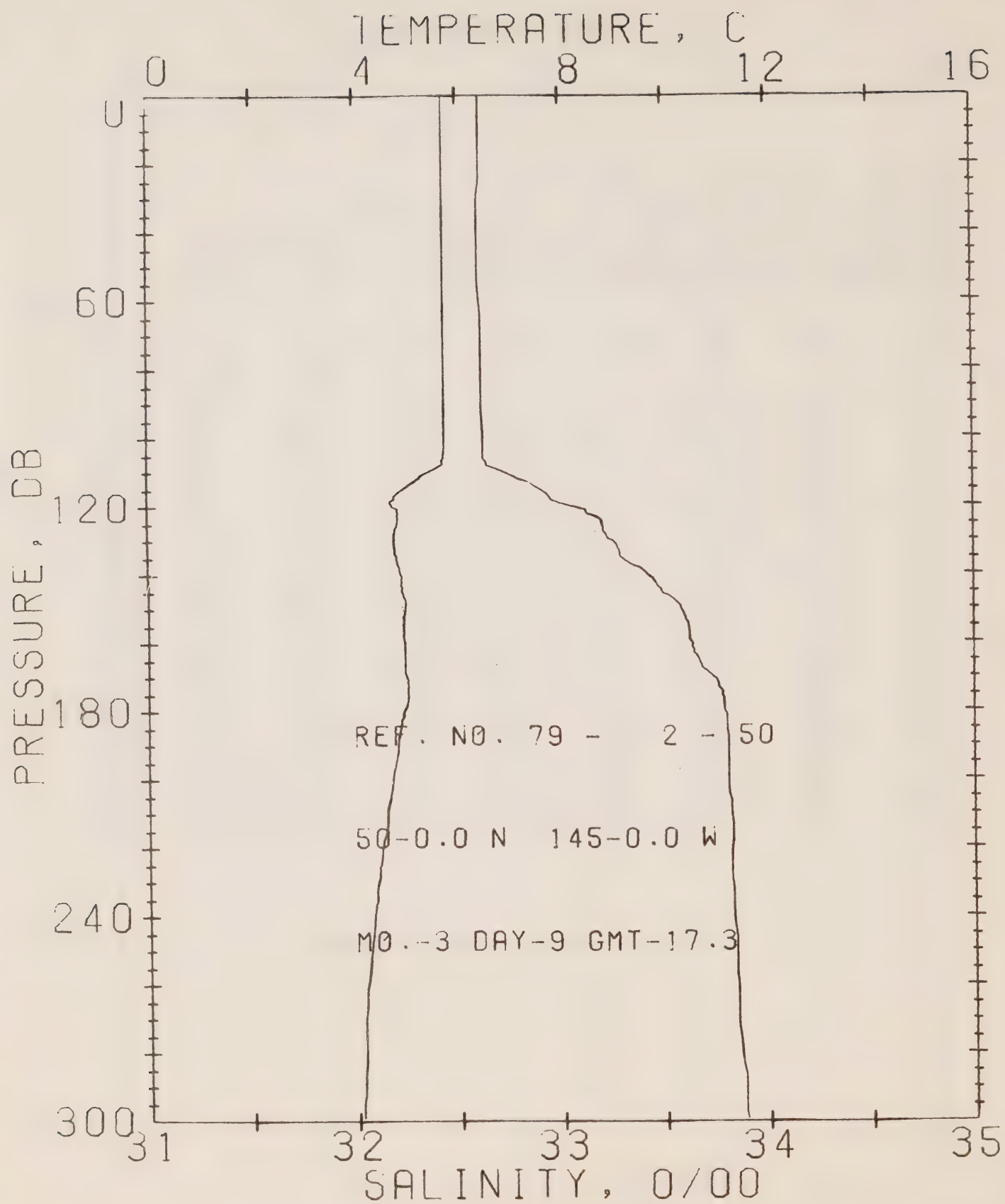
DATE 7/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 242 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.72	32.60	0	25.72	228.5	.00	.00	1471.
10	5.72	32.60	10	25.72	228.6	.23	.01	1471.
20	5.72	32.60	20	25.72	228.7	.46	.05	1471.
30	5.72	32.60	30	25.72	228.8	.69	.10	1471.
50	5.71	32.60	50	25.72	228.9	1.14	.29	1472.
75	5.58	32.62	75	25.75	226.2	1.71	.65	1471.
100	5.49	32.66	99	25.79	222.5	2.28	1.16	1472.
125	4.94	33.26	124	26.33	171.7	2.77	1.72	1470.
150	4.88	33.58	149	26.59	147.3	3.17	2.28	1471.
175	4.90	33.78	174	26.74	132.8	3.52	2.85	1472.
200	4.60	33.79	199	26.78	129.1	3.84	3.48	1471.
225	4.37	33.82	223	26.83	124.6	4.16	4.16	1470.
250	4.23	33.83	248	26.86	122.6	4.47	4.91	1470.
300	4.02	33.88	298	26.92	117.0	5.07	6.59	1470.
400	3.92	34.00	397	27.02	108.0	6.19	10.59	1472.
500	3.74	34.10	496	27.12	99.1	7.23	15.33	1473.
600	3.60	34.18	595	27.19	92.9	8.19	20.72	1474.
800	3.21	34.29	793	27.32	81.6	9.93	33.12	1476.
1000	2.88	34.38	990	27.42	72.7	11.47	47.20	1478.
1200	2.60	34.45	1188	27.50	66.0	12.85	62.67	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 50

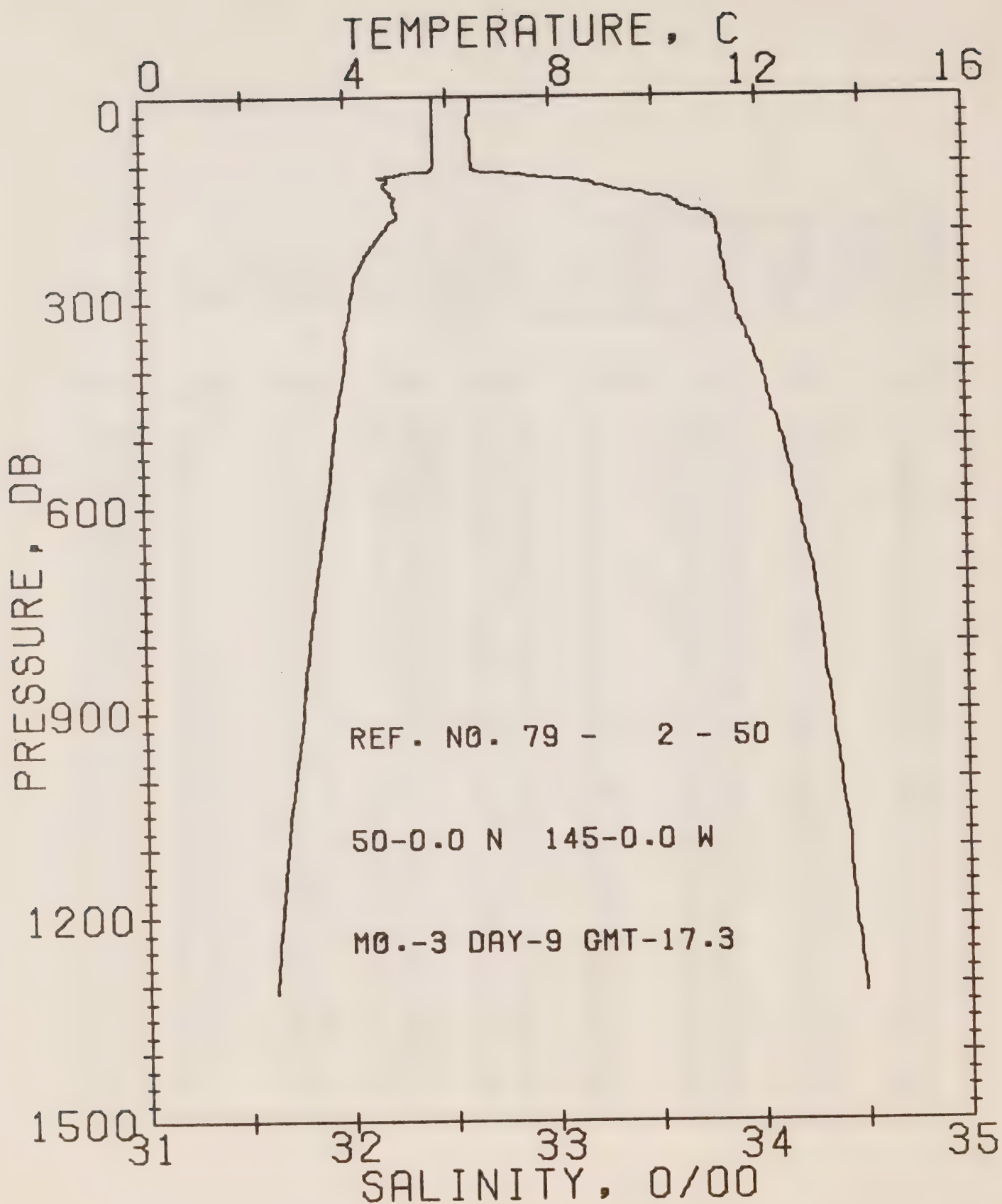
DATE 9/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 125 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.61	0	25.72	228.0	.00	.00	1471.
10	5.74	32.61	10	25.72	228.1	.23	.01	1471.
20	5.74	32.61	20	25.72	228.2	.46	.05	1471.
30	5.74	32.60	30	25.72	228.9	.68	.10	1471.
40	5.74	32.60	40	25.71	229.2	.91	.19	1471.
50	5.74	32.60	50	25.71	229.3	1.14	.29	1472.
60	5.74	32.61	60	25.72	228.9	1.37	.42	1472.
70	5.74	32.61	70	25.72	228.7	1.60	.57	1472.
80	5.73	32.61	79	25.72	228.7	1.83	.75	1472.
90	5.74	32.61	89	25.72	228.9	2.06	.94	1472.
100	5.73	32.62	99	25.73	228.2	2.29	1.17	1472.
110	5.41	32.72	109	25.85	217.2	2.51	1.41	1471.
120	4.73	33.05	119	26.18	185.1	2.71	1.64	1469.
130	4.75	33.25	129	26.34	170.4	2.89	1.87	1470.
140	4.89	33.42	139	26.46	159.3	3.06	2.10	1471.
150	4.97	33.58	149	26.58	148.3	3.21	2.32	1471.
160	4.95	33.63	159	26.62	144.5	3.36	2.55	1472.
170	4.99	33.73	169	26.69	137.5	3.50	2.79	1472.
180	4.95	33.80	179	26.75	132.3	3.63	3.03	1472.
190	4.81	33.81	189	26.78	129.8	3.76	3.28	1472.
200	4.71	33.81	199	26.79	128.8	3.89	3.53	1471.
210	4.59	33.82	209	26.81	126.8	4.02	3.80	1471.
220	4.48	33.82	218	26.82	125.5	4.15	4.08	1471.
230	4.41	33.82	228	26.83	124.8	4.27	4.36	1471.
240	4.31	33.83	238	26.85	123.3	4.39	4.66	1470.
250	4.26	33.84	248	26.86	122.1	4.52	4.97	1470.
260	4.19	33.85	258	26.88	120.8	4.64	5.28	1470.
270	4.14	33.85	268	26.88	120.3	4.76	5.61	1470.
280	4.13	33.86	278	26.89	119.2	4.88	5.95	1470.
290	4.10	33.88	288	26.91	117.8	5.00	6.29	1471.
300	4.09	33.89	298	26.92	117.0	5.12	6.64	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 50

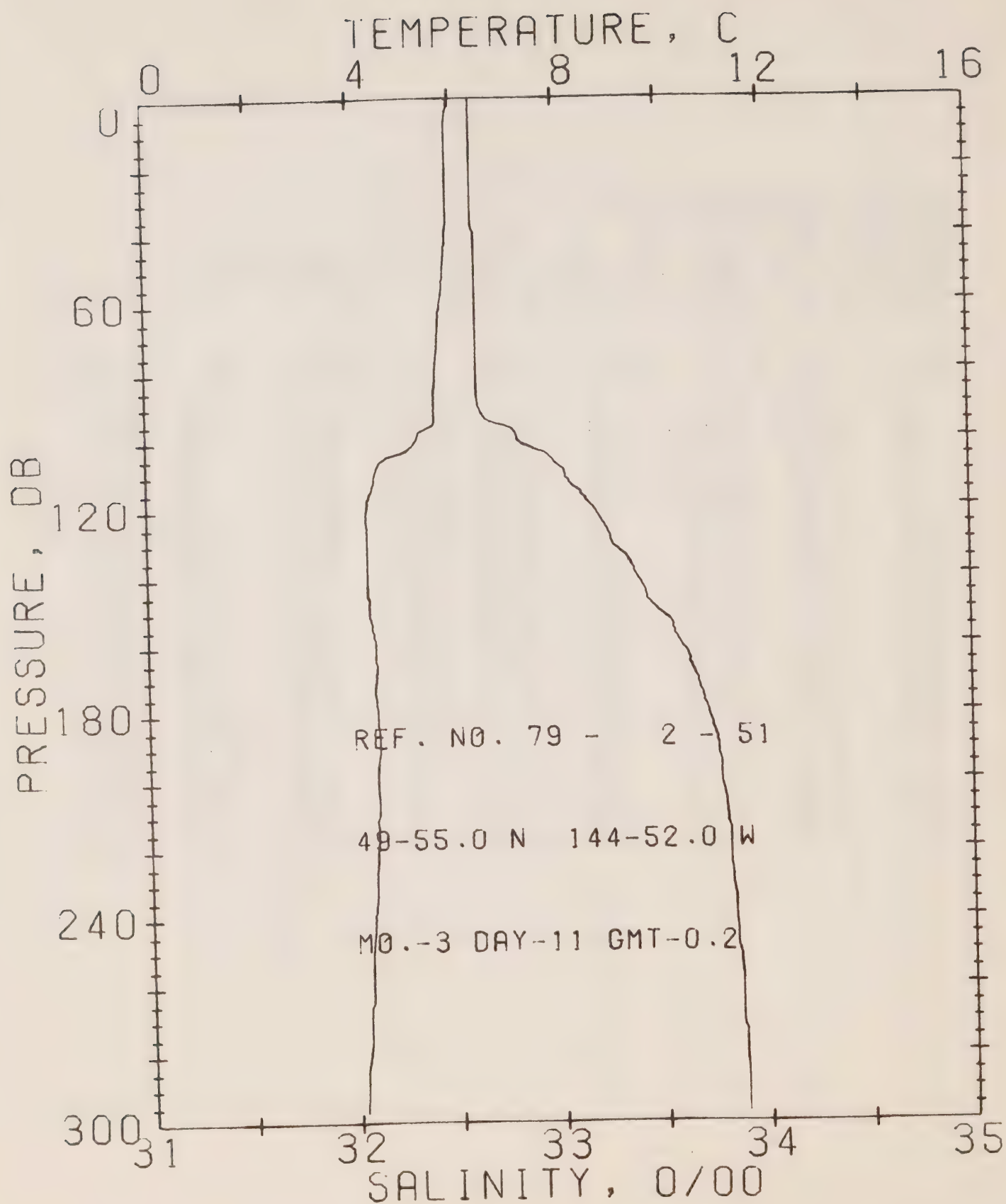
DATE 9/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 231 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.61	0	25.72	228.0	.00	.00	1471.
10	5.74	32.61	10	25.72	228.1	.23	.01	1471.
20	5.74	32.61	20	25.72	228.2	.46	.05	1471.
30	5.74	32.60	30	25.72	228.9	.68	.10	1471.
50	5.74	32.60	50	25.71	229.3	1.14	.29	1472.
75	5.73	32.61	75	25.72	228.7	1.72	.66	1472.
100	5.73	32.62	99	25.73	228.2	2.29	1.17	1472.
125	4.81	33.19	124	26.29	175.1	2.80	1.75	1470.
150	4.97	33.58	149	26.58	148.3	3.21	2.32	1471.
175	5.02	33.78	174	26.73	134.2	3.56	2.91	1472.
200	4.71	33.81	199	26.79	128.8	3.89	3.53	1471.
225	4.45	33.82	223	26.82	125.4	4.21	4.22	1471.
250	4.26	33.84	248	26.86	122.1	4.52	4.97	1470.
300	4.09	33.89	298	26.92	117.0	5.12	6.64	1471.
400	3.95	34.01	397	27.03	107.3	6.24	10.64	1472.
500	3.73	34.11	496	27.13	98.2	7.27	15.35	1473.
600	3.57	34.19	595	27.21	91.8	8.22	20.69	1474.
800	3.20	34.30	793	27.33	80.9	9.94	32.91	1476.
1000	2.88	34.38	990	27.42	72.8	11.48	47.00	1478.
1200	2.60	34.44	1188	27.50	66.0	12.85	62.42	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 51

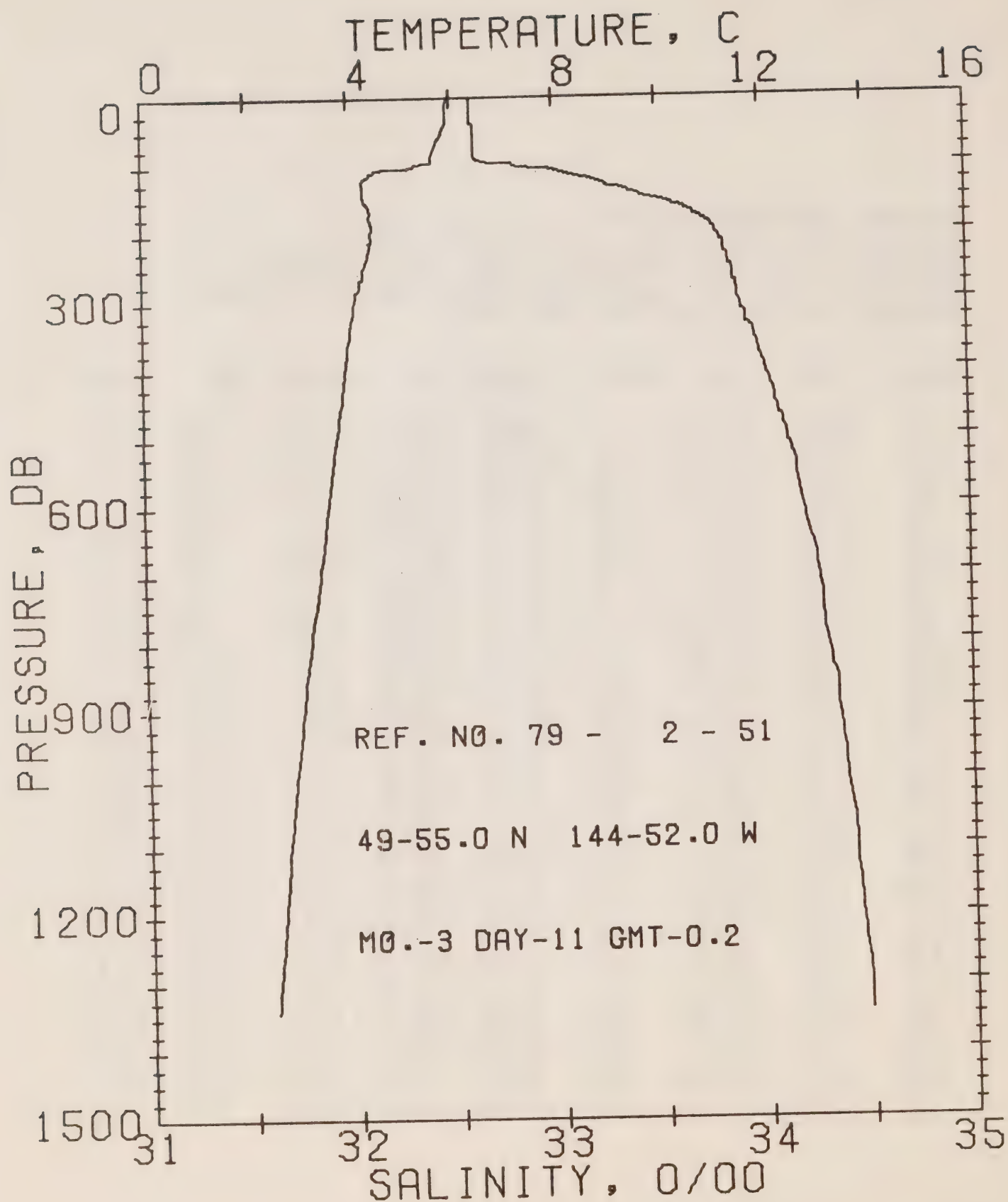
DATE 11/ 3/79

POSITION 49-55.0N, 144-52.0W GMT .2 STATION P

RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.96	32.60	0	25.69	231.3	.00	.00	1472.
10	5.93	32.60	10	25.69	231.0	.23	.01	1472.
20	5.93	32.60	20	25.69	231.1	.46	.05	1472.
30	5.93	32.60	30	25.69	231.2	.69	.11	1472.
40	5.90	32.61	40	25.70	230.3	.92	.19	1472.
50	5.84	32.61	50	25.71	229.7	1.15	.29	1472.
60	5.78	32.61	60	25.72	229.0	1.38	.42	1472.
70	5.71	32.61	70	25.73	228.4	1.61	.57	1472.
80	5.65	32.61	79	25.73	227.8	1.84	.75	1472.
90	5.63	32.62	89	25.74	226.9	2.07	.95	1472.
100	5.27	32.81	99	25.93	208.8	2.29	1.16	1471.
110	4.46	33.03	109	26.20	183.3	2.48	1.36	1468.
120	4.29	33.17	119	26.33	171.6	2.66	1.57	1468.
130	4.29	33.26	129	26.40	164.9	2.83	1.79	1468.
140	4.30	33.38	139	26.49	156.1	2.99	2.01	1468.
150	4.32	33.48	149	26.57	148.9	3.14	2.23	1469.
160	4.43	33.59	159	26.64	141.8	3.28	2.46	1469.
170	4.43	33.67	169	26.71	136.0	3.42	2.69	1470.
180	4.46	33.72	179	26.74	132.6	3.56	2.93	1470.
190	4.48	33.77	189	26.78	129.2	3.69	3.18	1470.
200	4.43	33.78	199	26.79	128.0	3.82	3.44	1470.
210	4.45	33.81	209	26.82	126.0	3.94	3.70	1471.
220	4.42	33.82	218	26.83	125.0	4.07	3.98	1471.
230	4.37	33.83	228	26.84	123.9	4.19	4.26	1471.
240	4.33	33.84	238	26.85	122.8	4.32	4.56	1471.
250	4.28	33.86	248	26.87	121.1	4.44	4.86	1471.
260	4.26	33.87	258	26.88	120.0	4.56	5.17	1471.
270	4.22	33.87	268	26.89	119.7	4.68	5.50	1471.
280	4.19	33.88	278	26.90	118.7	4.80	5.83	1471.
290	4.12	33.89	288	26.91	117.3	4.91	6.17	1471.
300	4.09	33.89	298	26.92	116.7	5.03	6.52	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 51

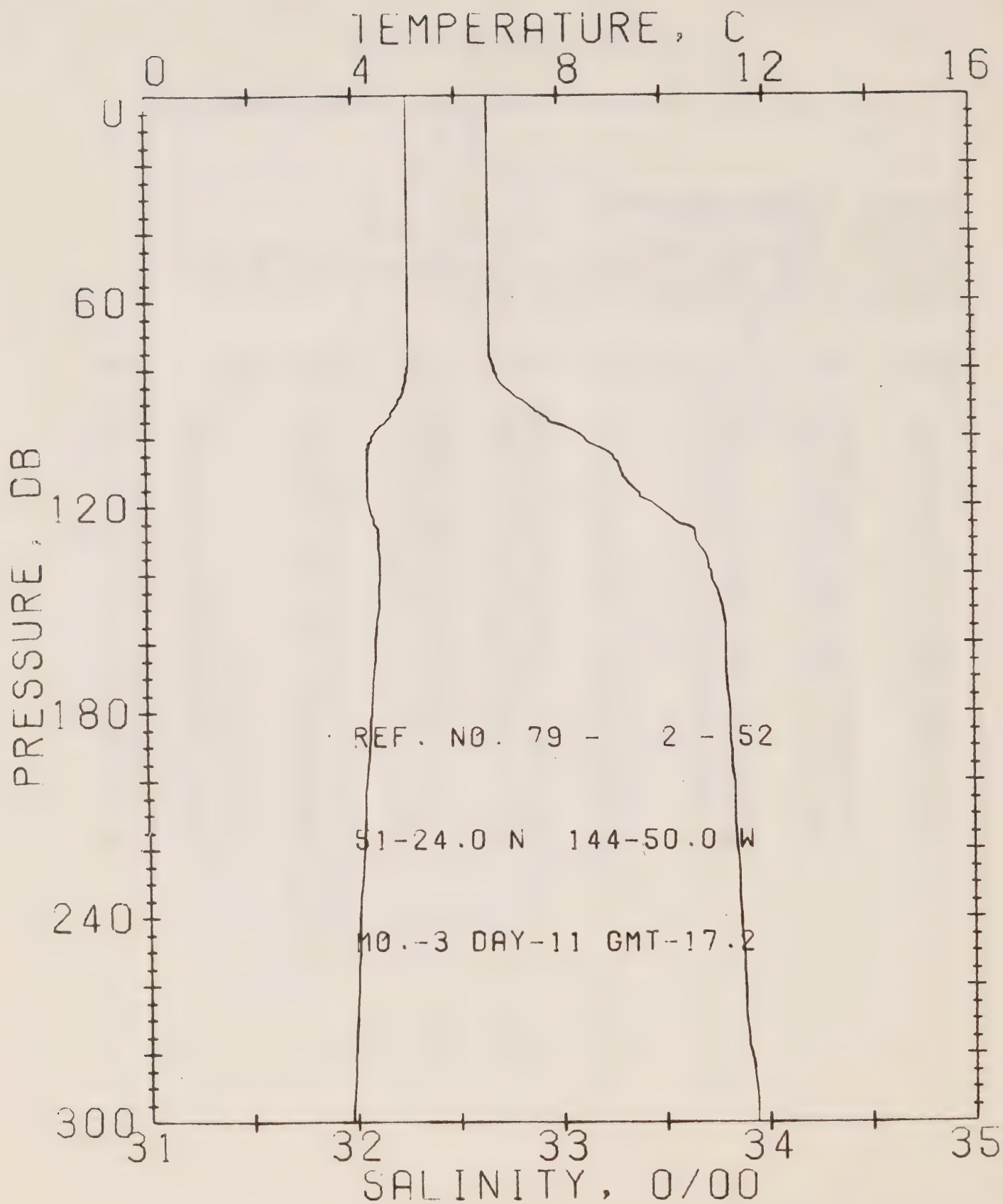
DATE 11/ 3/79

POSITION 49-55.0N, 144-52.0W GMT .2 STATION P

RESULTS OF STP CAST 268 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.96	32.60	0	25.69	231.3	.00	.00	1472.
10	5.93	32.60	10	25.69	231.0	.23	.01	1472.
20	5.93	32.60	20	25.69	231.1	.46	.05	1472.
30	5.93	32.60	30	25.69	231.2	.69	.11	1472.
50	5.84	32.61	50	25.71	229.7	1.15	.29	1472.
75	5.68	32.61	75	25.73	228.1	1.73	.66	1472.
100	5.27	32.81	99	25.93	208.8	2.29	1.16	1471.
125	4.28	33.22	124	26.37	167.8	2.74	1.68	1468.
150	4.32	33.48	149	26.57	148.9	3.14	2.23	1469.
175	4.42	33.69	174	26.73	134.0	3.49	2.81	1470.
200	4.43	33.78	199	26.79	128.0	3.82	3.44	1470.
225	4.39	33.82	223	26.83	124.6	4.13	4.12	1471.
250	4.28	33.86	248	26.87	121.1	4.44	4.86	1471.
300	4.09	33.89	298	26.92	116.7	5.03	6.52	1471.
400	3.90	34.01	397	27.03	106.7	6.14	10.48	1472.
500	3.71	34.12	496	27.14	97.6	7.17	15.16	1473.
600	3.53	34.19	595	27.21	91.4	8.11	20.43	1474.
800	3.16	34.30	793	27.34	80.3	9.81	32.55	1475.
1000	2.84	34.39	990	27.43	71.6	11.32	46.35	1477.
1200	2.58	34.45	1188	27.51	65.3	12.68	61.59	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 52

DATE 11/ 3/79

POSITION 51-24.0N, 144-50.0W

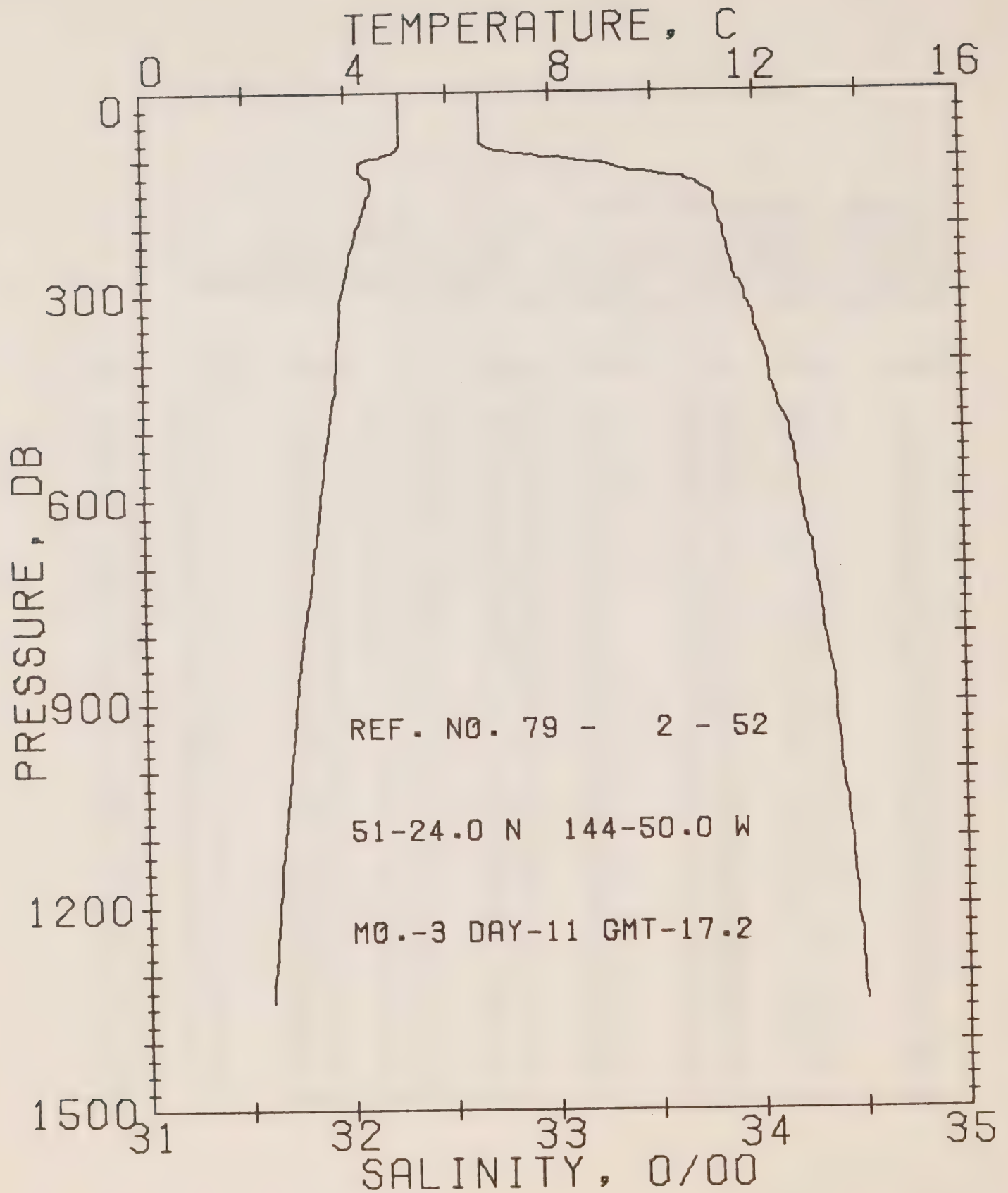
GMT 17.2

STATION P

RESULTS OF STP CAST 118 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.08	32.66	0	25.84	217.0	.00	.00	1468.
10	5.07	32.66	10	25.84	217.0	.22	.01	1468.
20	5.07	32.66	20	25.84	217.1	.43	.04	1469.
30	5.07	32.66	30	25.84	217.2	.65	.10	1469.
40	5.07	32.66	40	25.84	217.3	.87	.18	1469.
50	5.07	32.66	50	25.84	217.3	1.09	.28	1469.
60	5.07	32.66	60	25.84	217.4	1.30	.40	1469.
70	5.07	32.66	70	25.84	217.5	1.52	.54	1469.
80	5.05	32.68	79	25.86	215.9	1.74	.71	1469.
90	4.86	32.84	89	26.00	201.9	1.95	.89	1469.
100	4.35	33.12	99	26.28	175.8	2.14	1.07	1467.
110	4.26	33.30	109	26.44	161.2	2.30	1.25	1467.
120	4.31	33.47	119	26.56	149.3	2.46	1.44	1468.
130	4.49	33.66	129	26.69	137.0	2.60	1.62	1469.
140	4.52	33.73	139	26.75	132.1	2.74	1.80	1470.
150	4.47	33.79	149	26.80	127.2	2.87	1.99	1470.
160	4.41	33.80	159	26.81	125.9	2.99	2.19	1470.
170	4.35	33.81	169	26.82	124.9	3.12	2.40	1470.
180	4.32	33.82	179	26.84	123.7	3.24	2.62	1470.
190	4.28	33.83	189	26.85	122.8	3.37	2.86	1470.
200	4.22	33.84	199	26.86	121.3	3.49	3.10	1469.
210	4.18	33.84	208	26.87	121.0	3.61	3.35	1469.
220	4.14	33.85	218	26.88	119.7	3.73	3.62	1470.
230	4.11	33.86	228	26.89	118.9	3.85	3.89	1470.
240	4.06	33.87	238	26.90	117.9	3.97	4.17	1470.
250	4.04	33.88	248	26.91	117.0	4.08	4.47	1470.
260	4.02	33.89	258	26.92	116.1	4.20	4.77	1470.
270	3.99	33.89	268	26.93	115.6	4.32	5.08	1470.
280	3.97	33.91	278	26.95	114.0	4.43	5.40	1470.
290	3.93	33.94	288	26.97	111.9	4.54	5.73	1470.
300	3.89	33.94	298	26.98	111.2	4.66	6.07	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 52

DATE 11/ 3/79

POSITION 51-24.0N, 144-50.0W

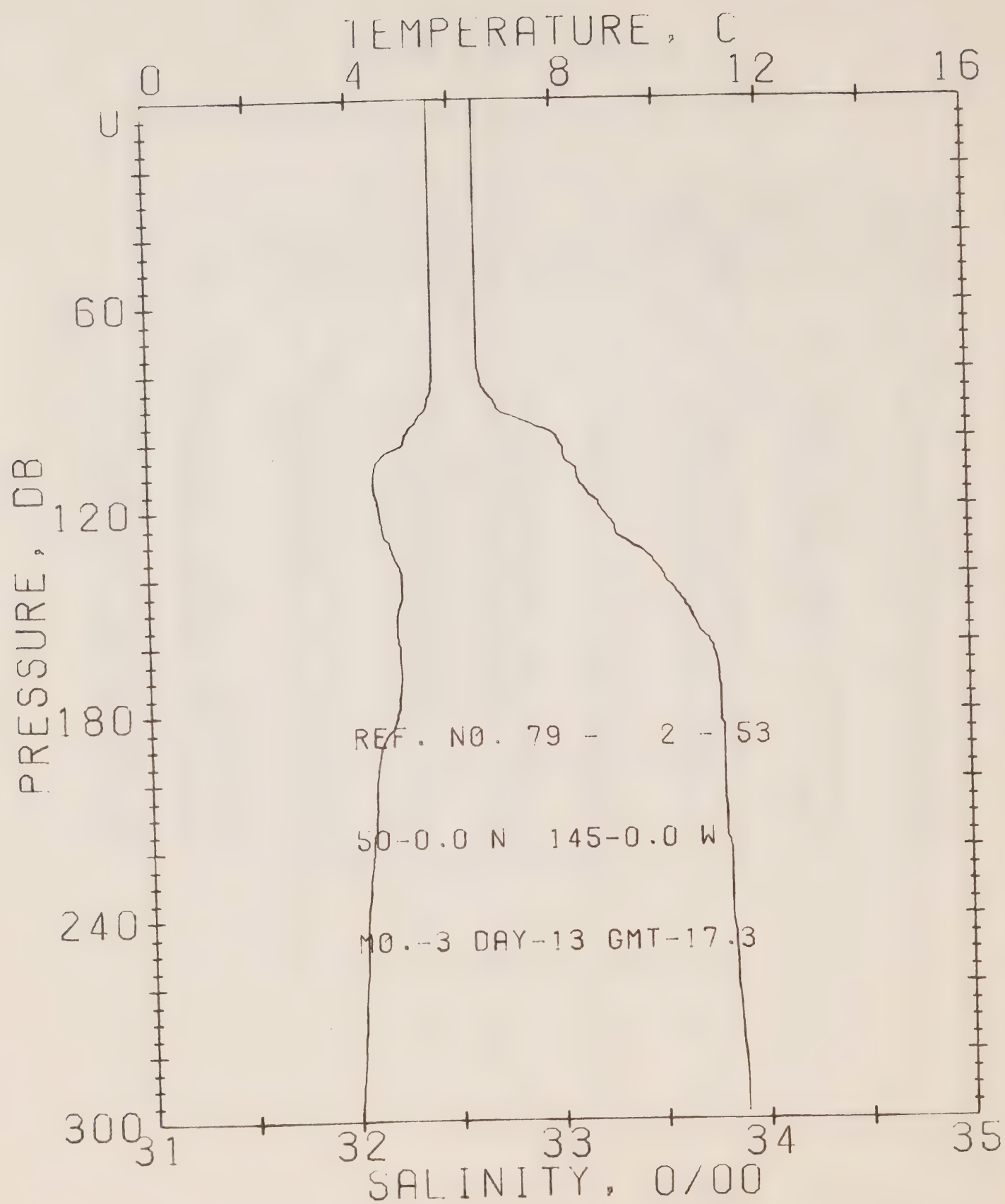
GMT 17.2

STATION P

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.08	32.66	0	25.84	217.0	.00	.00	1468.
10	5.07	32.66	10	25.84	217.0	.22	.01	1468.
20	5.07	32.66	20	25.84	217.1	.43	.04	1469.
30	5.07	32.66	30	25.84	217.2	.65	.10	1469.
50	5.07	32.66	50	25.84	217.3	1.09	.28	1469.
75	5.07	32.66	75	25.84	217.6	1.63	.62	1469.
100	4.35	33.12	99	26.28	175.8	2.14	1.07	1467.
125	4.41	33.58	124	26.64	142.1	2.53	1.53	1469.
150	4.47	33.79	149	26.80	127.2	2.87	1.99	1470.
175	4.34	33.81	174	26.83	124.3	3.18	2.51	1470.
200	4.22	33.84	199	26.86	121.3	3.49	3.10	1469.
225	4.12	33.86	223	26.89	119.1	3.79	3.75	1470.
250	4.04	33.88	248	26.91	117.0	4.08	4.47	1470.
300	3.89	33.94	298	26.98	111.2	4.66	6.07	1470.
400	3.78	34.05	397	27.08	102.7	5.72	9.87	1471.
500	3.63	34.15	496	27.17	94.4	6.72	14.41	1472.
600	3.44	34.20	595	27.23	89.1	7.63	19.53	1473.
800	3.08	34.32	793	27.36	78.2	9.30	31.38	1475.
1000	2.80	34.40	990	27.44	70.7	10.77	44.91	1477.
1200	2.54	34.46	1188	27.52	64.3	12.11	59.91	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 53

DATE 13/ 3/79

POSITION 50- .0N, 145- .0W

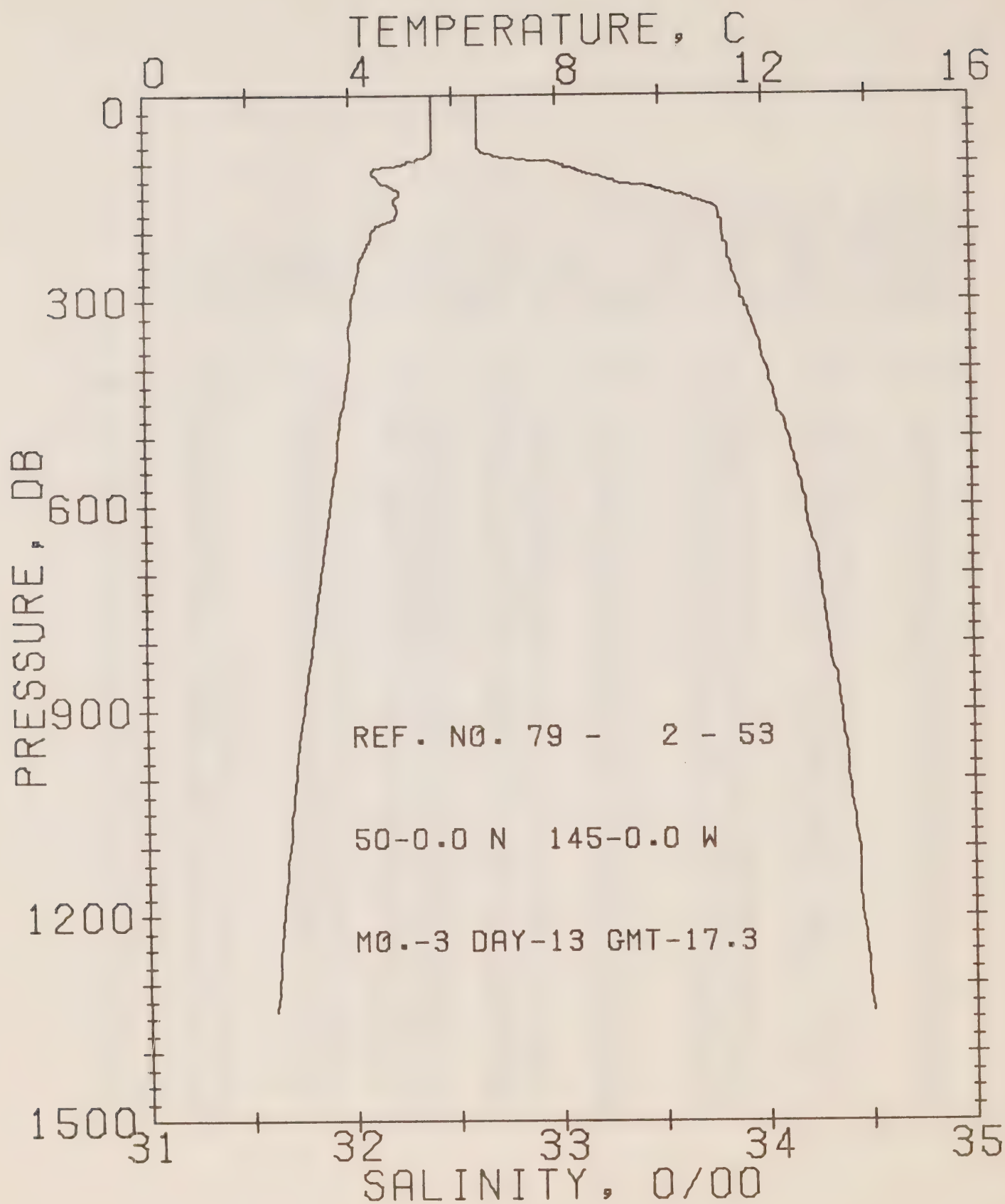
GMT 17.3

STATION P

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.61	32.62	0	25.75	225.8	.00	.00	1470.
10	5.61	32.62	10	25.75	225.9	.23	.01	1470.
20	5.60	32.62	20	25.75	225.9	.45	.05	1471.
30	5.60	32.62	30	25.75	226.0	.68	.10	1471.
40	5.60	32.62	40	25.75	226.1	.90	.18	1471.
50	5.60	32.62	50	25.75	226.2	1.13	.29	1471.
60	5.60	32.62	60	25.75	226.3	1.36	.41	1471.
70	5.60	32.62	70	25.75	226.4	1.58	.56	1471.
80	5.60	32.62	79	25.75	226.1	1.81	.74	1472.
90	5.47	32.70	89	25.83	218.8	2.03	.93	1471.
100	5.03	33.01	99	26.12	191.1	2.24	1.13	1470.
110	4.44	33.10	109	26.26	178.3	2.42	1.33	1468.
120	4.51	33.21	119	26.33	170.9	2.60	1.53	1469.
130	4.71	33.35	129	26.42	162.5	2.76	1.74	1470.
140	4.96	33.52	139	26.53	152.6	2.92	1.96	1471.
150	4.88	33.64	149	26.63	142.8	3.07	2.18	1471.
160	4.89	33.74	159	26.71	135.6	3.21	2.40	1471.
170	4.93	33.78	169	26.74	133.1	3.34	2.62	1472.
180	4.86	33.79	179	26.76	131.6	3.47	2.86	1472.
190	4.53	33.80	189	26.80	127.4	3.60	3.10	1471.
200	4.42	33.80	199	26.81	126.3	3.73	3.36	1470.
210	4.38	33.81	208	26.82	125.3	3.86	3.62	1470.
220	4.32	33.83	218	26.85	123.3	3.98	3.89	1470.
230	4.25	33.83	228	26.85	122.6	4.10	4.18	1470.
240	4.19	33.83	238	26.86	122.0	4.23	4.47	1470.
250	4.17	33.84	248	26.87	120.9	4.35	4.77	1470.
260	4.14	33.85	258	26.88	120.2	4.47	5.08	1470.
270	4.11	33.86	268	26.90	118.9	4.59	5.41	1470.
280	4.08	33.88	278	26.91	117.7	4.71	5.74	1470.
290	4.03	33.89	288	26.92	116.4	4.82	6.08	1470.
300	4.00	33.90	298	26.93	115.6	4.94	6.43	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 53

DATE 13/ 3/79

POSITION 50- .0N, 145- .0W

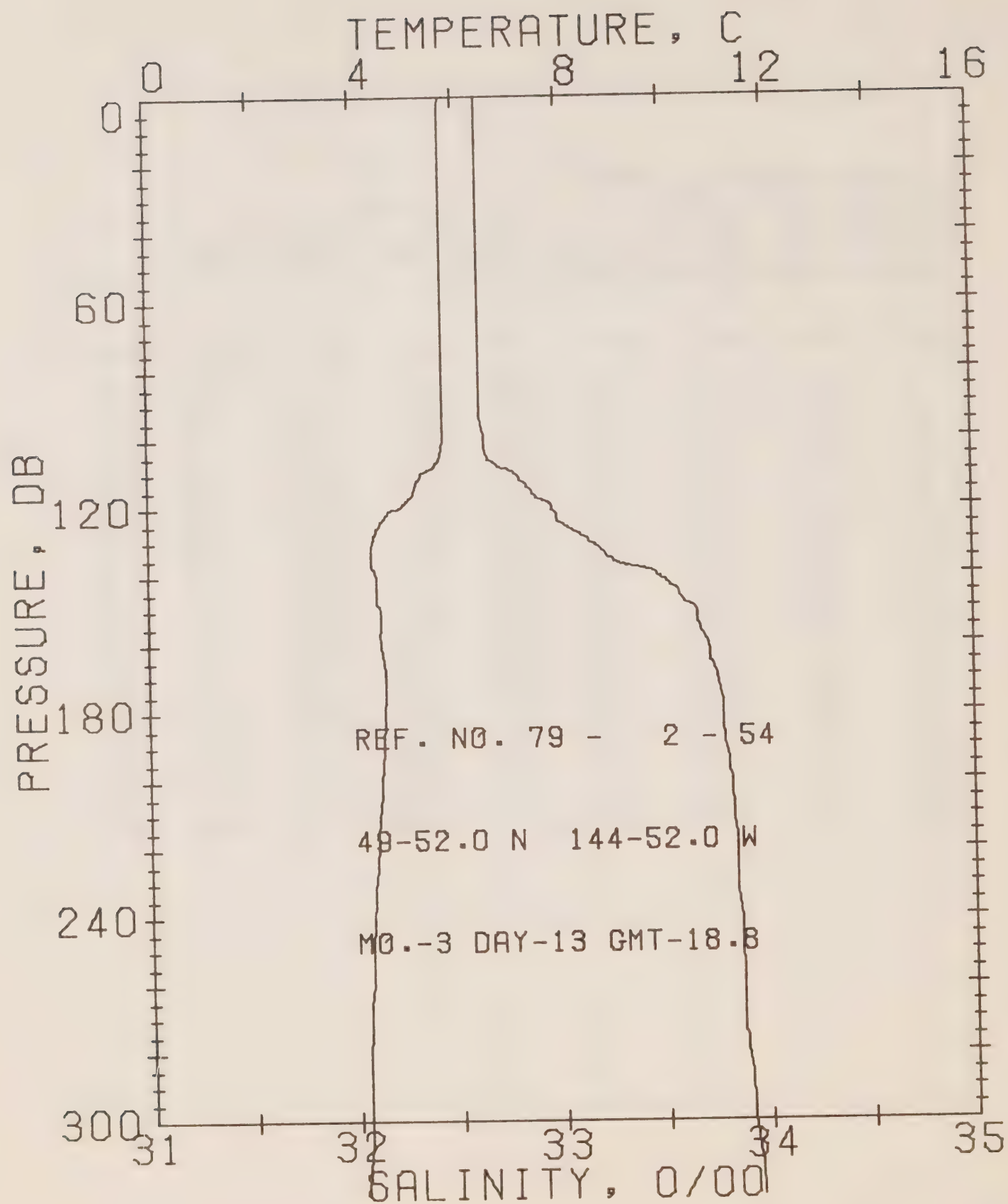
GMT 17.3

STATION P

RESULTS OF STP CAST 266 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.61	32.62	0	25.75	225.8	.00	.00	1470.
10	5.61	32.62	10	25.75	225.9	.23	.01	1470.
20	5.60	32.62	20	25.75	225.9	.45	.05	1471.
30	5.60	32.62	30	25.75	226.0	.68	.10	1471.
50	5.60	32.62	50	25.75	226.2	1.13	.29	1471.
75	5.60	32.62	75	25.75	226.4	1.70	.65	1472.
100	5.03	33.01	99	26.12	191.1	2.24	1.13	1470.
125	4.59	33.28	124	26.38	166.4	2.68	1.64	1469.
150	4.88	33.64	149	26.63	142.8	3.07	2.18	1471.
175	4.90	33.79	174	26.75	132.0	3.41	2.74	1472.
200	4.42	33.80	199	26.81	126.3	3.73	3.36	1470.
225	4.29	33.83	223	26.85	123.0	4.04	4.03	1470.
250	4.17	33.84	248	26.87	120.9	4.35	4.77	1470.
300	4.00	33.90	298	26.93	115.6	4.94	6.43	1470.
400	3.94	34.01	397	27.03	107.3	6.05	10.38	1472.
500	3.73	34.11	496	27.13	98.1	7.08	15.11	1473.
600	3.57	34.19	595	27.21	91.5	8.03	20.42	1474.
800	3.18	34.30	793	27.33	80.6	9.74	32.59	1476.
1000	2.84	34.39	990	27.44	71.4	11.25	46.37	1478.
1200	2.58	34.45	1188	27.51	65.2	12.60	61.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 54

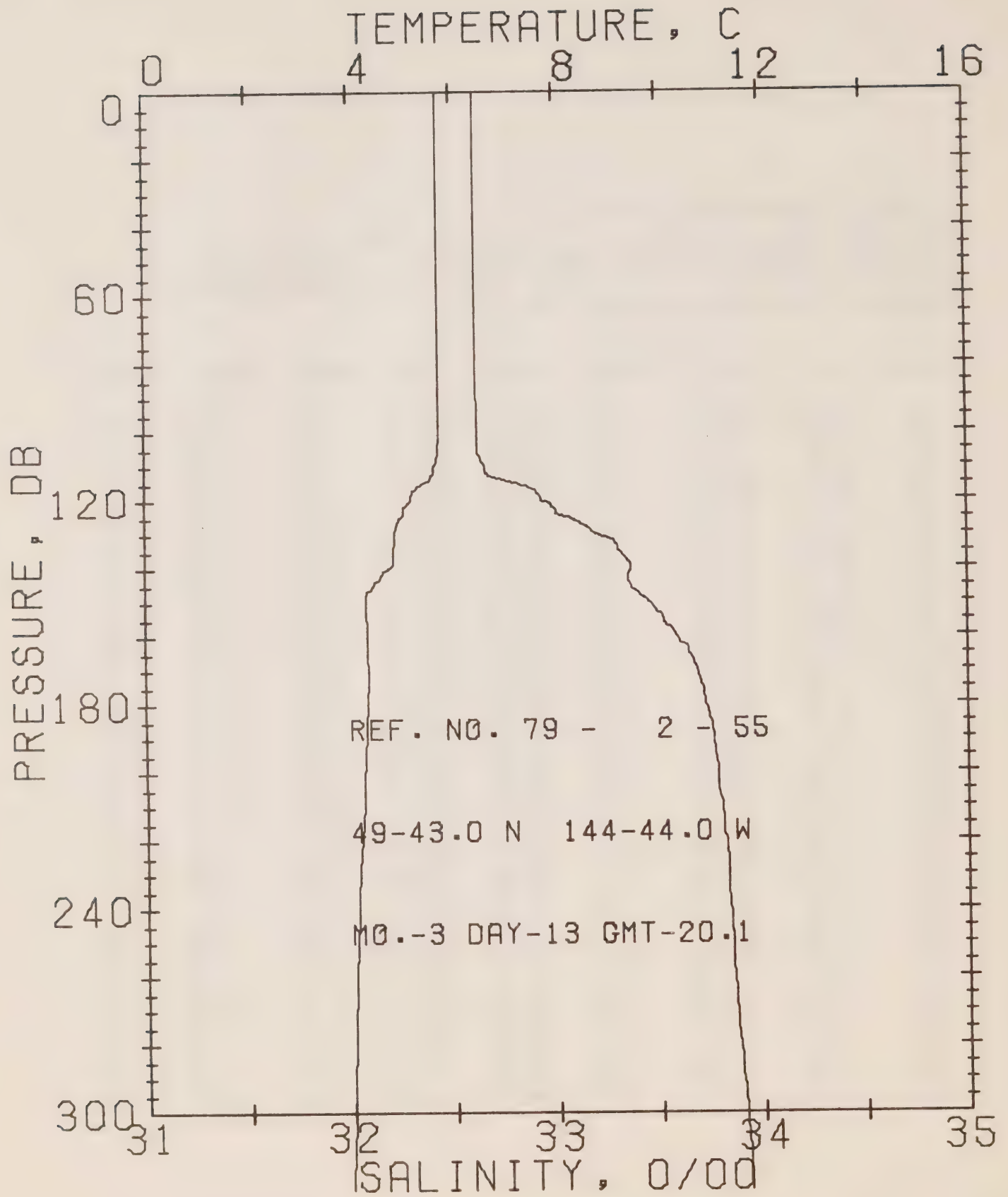
DATE 13/ 3/79

POSITION 49-52.0N, 144-52.0W GMT 18.8 STATION E3

RESULTS OF STP CAST 121 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.75	32.61	0	25.72	228.1	.00	.00	1471.
10	5.74	32.61	10	25.72	228.1	.23	.01	1471.
20	5.74	32.61	20	25.72	228.2	.46	.05	1471.
30	5.74	32.61	30	25.72	228.3	.68	.10	1471.
40	5.74	32.61	40	25.72	228.4	.91	.19	1472.
50	5.74	32.61	50	25.72	228.5	1.14	.29	1472.
60	5.74	32.61	60	25.72	228.6	1.37	.42	1472.
70	5.74	32.61	70	25.72	228.7	1.60	.57	1472.
80	5.74	32.61	79	25.72	228.8	1.83	.75	1472.
90	5.74	32.61	89	25.72	228.9	2.06	.94	1472.
100	5.72	32.63	99	25.74	227.3	2.28	1.16	1472.
110	5.31	32.78	109	25.91	211.5	2.51	1.40	1471.
120	4.87	32.96	119	26.10	193.4	2.71	1.64	1470.
130	4.34	33.14	129	26.30	174.4	2.90	1.88	1468.
140	4.42	33.47	139	26.55	150.6	3.06	2.10	1469.
150	4.51	33.65	149	26.68	138.1	3.20	2.32	1470.
160	4.51	33.71	159	26.73	133.7	3.34	2.53	1470.
170	4.59	33.75	169	26.75	131.7	3.47	2.75	1470.
180	4.55	33.78	179	26.78	129.1	3.60	2.99	1470.
190	4.54	33.79	189	26.79	128.0	3.73	3.23	1471.
200	4.49	33.82	199	26.82	125.6	3.86	3.48	1471.
210	4.44	33.83	209	26.83	124.4	3.98	3.74	1471.
220	4.39	33.84	218	26.85	123.3	4.11	4.01	1471.
230	4.34	33.84	228	26.85	122.8	4.23	4.30	1470.
240	4.30	33.86	238	26.87	121.1	4.35	4.59	1470.
250	4.28	33.86	248	26.88	120.7	4.47	4.89	1471.
260	4.26	33.87	258	26.88	120.0	4.59	5.20	1471.
270	4.22	33.87	268	26.89	119.6	4.71	5.53	1471.
280	4.20	33.88	278	26.90	118.6	4.83	5.86	1471.
290	4.20	33.90	288	26.92	117.2	4.95	6.20	1471.
300	4.20	33.91	298	26.92	116.6	5.07	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 55

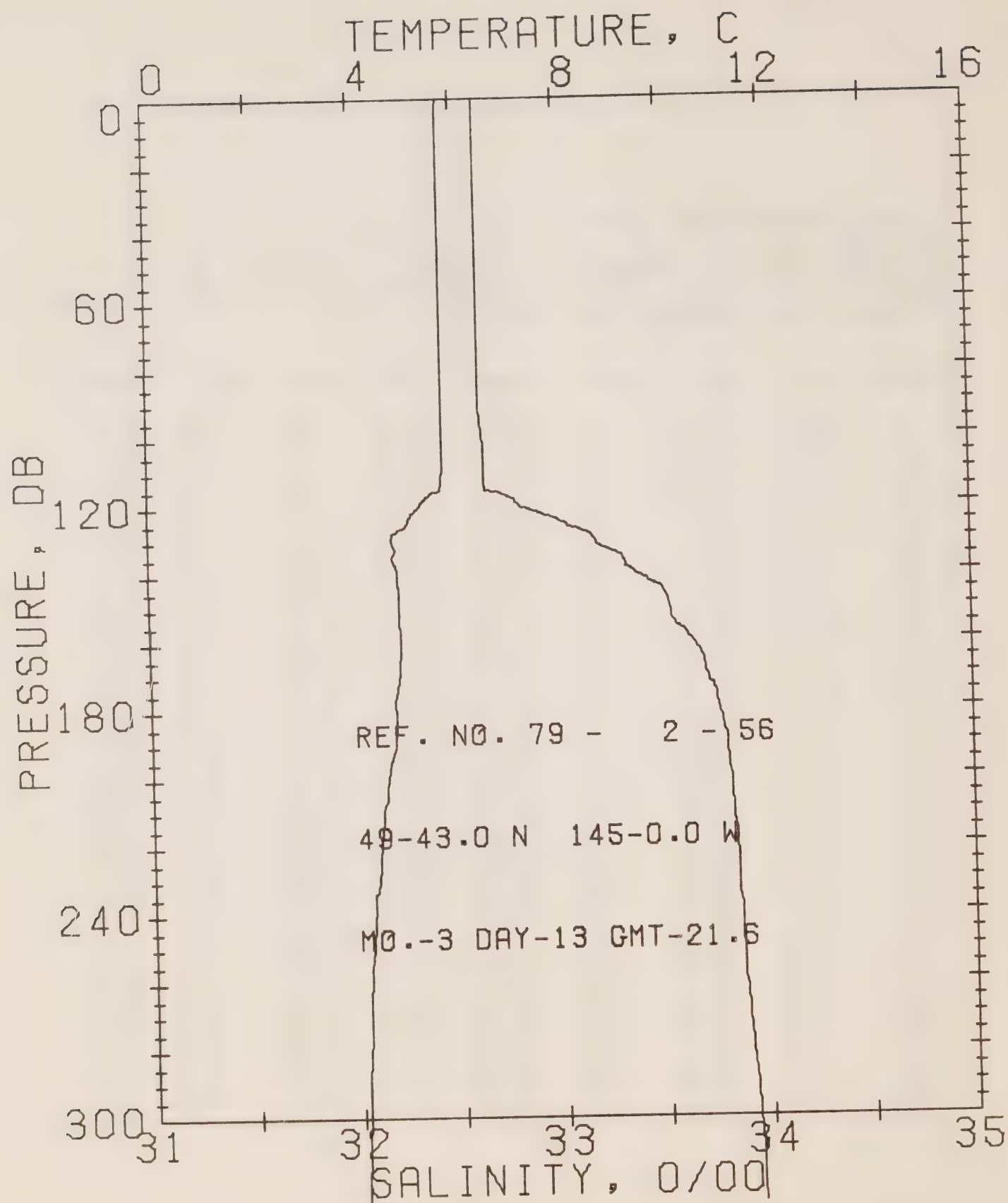
DATE 13/ 3/79

POSITION 49-43.0N, 144-44.0W GMT 20.1 STATION E4

RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.61	0	25.72	228.0	.00	.00	1471.
10	5.74	32.61	10	25.72	228.1	.23	.01	1471.
20	5.74	32.61	20	25.72	228.2	.46	.05	1471.
30	5.73	32.61	30	25.72	228.2	.68	.10	1471.
40	5.72	32.61	40	25.72	228.2	.91	.19	1471.
50	5.72	32.61	50	25.72	228.3	1.14	.29	1472.
60	5.72	32.61	60	25.72	228.4	1.37	.42	1472.
70	5.72	32.61	70	25.72	228.5	1.60	.57	1472.
80	5.72	32.61	79	25.72	228.6	1.83	.74	1472.
90	5.72	32.61	89	25.73	228.5	2.05	.94	1472.
100	5.72	32.62	99	25.73	228.1	2.28	1.16	1472.
110	5.64	32.65	109	25.77	225.0	2.51	1.41	1472.
120	5.16	32.93	119	26.04	198.8	2.72	1.66	1471.
130	4.86	33.19	129	26.28	176.1	2.91	1.89	1470.
140	4.75	33.36	139	26.43	162.3	3.08	2.12	1470.
150	4.30	33.45	149	26.55	150.9	3.23	2.36	1468.
160	4.32	33.58	159	26.65	141.5	3.38	2.59	1469.
170	4.34	33.68	169	26.73	134.3	3.52	2.82	1469.
180	4.31	33.72	179	26.76	131.0	3.65	3.05	1469.
190	4.29	33.76	189	26.79	127.9	3.78	3.30	1470.
200	4.25	33.78	199	26.81	126.1	3.91	3.55	1470.
210	4.24	33.80	209	26.83	124.6	4.03	3.81	1470.
220	4.18	33.82	218	26.85	122.5	4.16	4.08	1470.
230	4.13	33.83	228	26.87	121.4	4.28	4.36	1470.
240	4.10	33.84	238	26.87	120.6	4.40	4.65	1470.
250	4.08	33.85	248	26.89	119.6	4.52	4.95	1470.
260	4.06	33.86	258	26.89	119.0	4.64	5.26	1470.
270	4.04	33.87	268	26.90	118.0	4.76	5.58	1470.
280	4.02	33.88	278	26.92	116.8	4.87	5.91	1470.
290	4.01	33.89	288	26.93	115.8	4.99	6.25	1470.
300	3.99	33.91	298	26.94	114.6	5.11	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 56

DATE 13/ 3/79

POSITION 49-43.0N, 145- .0W

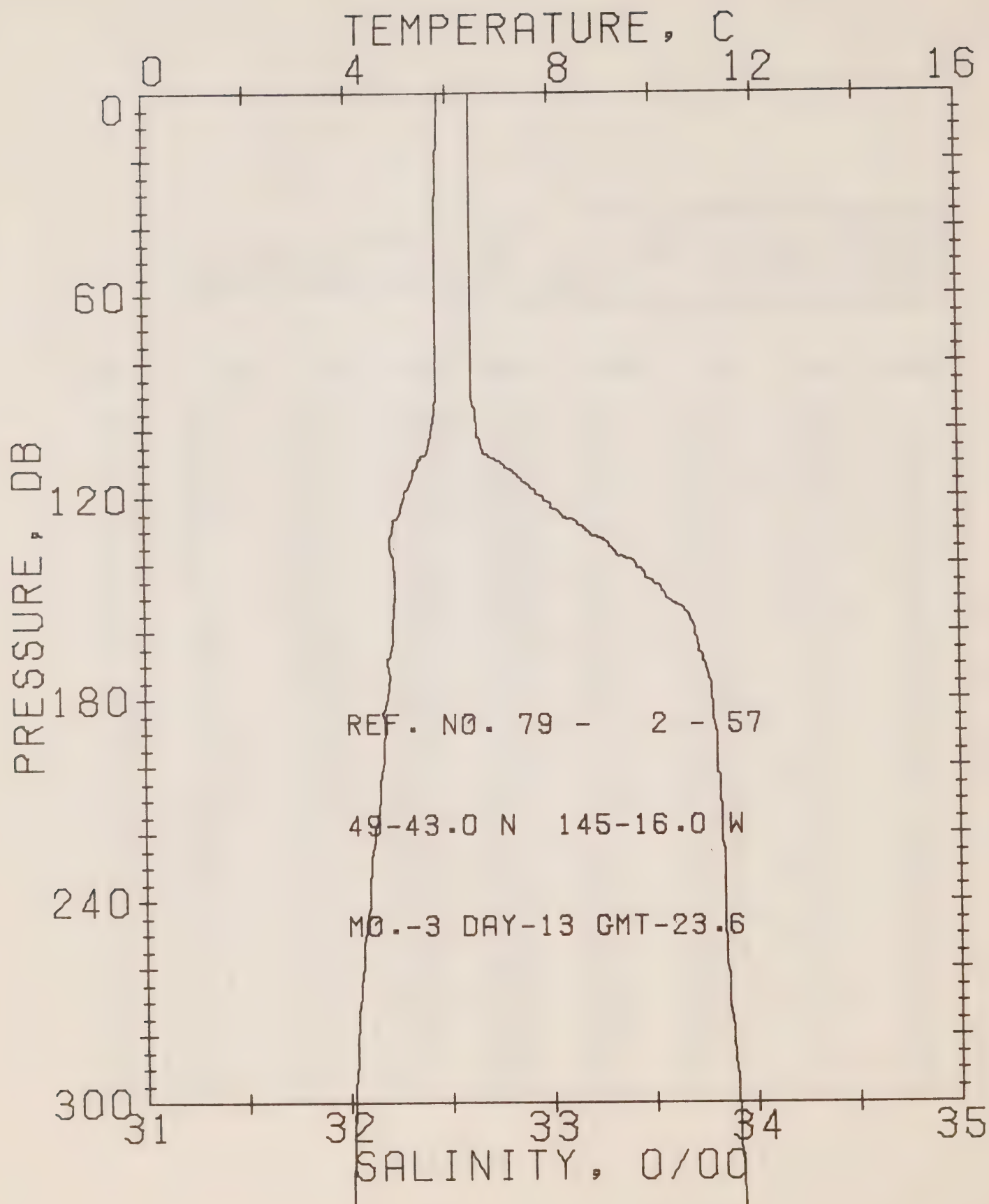
GMT 21.6

STATION C1

RESULTS OF STP CAST 127 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.75	32.61	0	25.72	228.1	.00	.00	1471.
10	5.74	32.61	10	25.72	228.1	.23	.01	1471.
20	5.73	32.61	20	25.72	228.1	.46	.05	1471.
30	5.72	32.61	30	25.72	228.1	.68	.10	1471.
40	5.72	32.61	40	25.72	228.2	.91	.19	1471.
50	5.72	32.61	50	25.72	228.3	1.14	.29	1472.
60	5.72	32.61	60	25.72	228.4	1.37	.42	1472.
70	5.72	32.61	70	25.72	228.5	1.60	.57	1472.
80	5.72	32.61	79	25.72	228.6	1.83	.74	1472.
90	5.72	32.61	89	25.72	228.7	2.05	.94	1472.
100	5.72	32.63	99	25.74	227.6	2.28	1.16	1472.
110	5.72	32.63	109	25.74	227.4	2.51	1.41	1473.
120	5.25	32.81	119	25.94	208.7	2.73	1.67	1471.
130	4.73	33.17	129	26.28	176.2	2.92	1.91	1470.
140	4.83	33.37	139	26.43	162.4	3.09	2.14	1470.
150	4.86	33.53	149	26.55	151.2	3.24	2.37	1471.
160	4.89	33.64	159	26.63	143.0	3.39	2.60	1471.
170	4.85	33.70	169	26.69	137.8	3.53	2.84	1471.
180	4.77	33.77	179	26.75	132.2	3.67	3.08	1471.
190	4.76	33.80	189	26.77	130.0	3.80	3.32	1472.
200	4.59	33.82	199	26.81	126.7	3.93	3.58	1471.
210	4.49	33.83	209	26.83	124.9	4.05	3.84	1471.
220	4.42	33.84	218	26.85	123.4	4.18	4.12	1471.
230	4.36	33.85	228	26.86	122.3	4.30	4.40	1471.
240	4.29	33.86	238	26.87	120.8	4.42	4.69	1470.
250	4.23	33.87	248	26.89	119.6	4.54	4.99	1470.
260	4.19	33.87	258	26.89	119.0	4.66	5.30	1470.
270	4.15	33.89	268	26.91	117.4	4.78	5.62	1470.
280	4.13	33.90	278	26.92	116.6	4.90	5.95	1470.
290	4.11	33.92	288	26.94	115.1	5.01	6.28	1471.
300	4.10	33.93	298	26.95	114.1	5.13	6.63	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 57

DATE 13/ 3/79

POSITION 49-43.0N, 145-16.0W

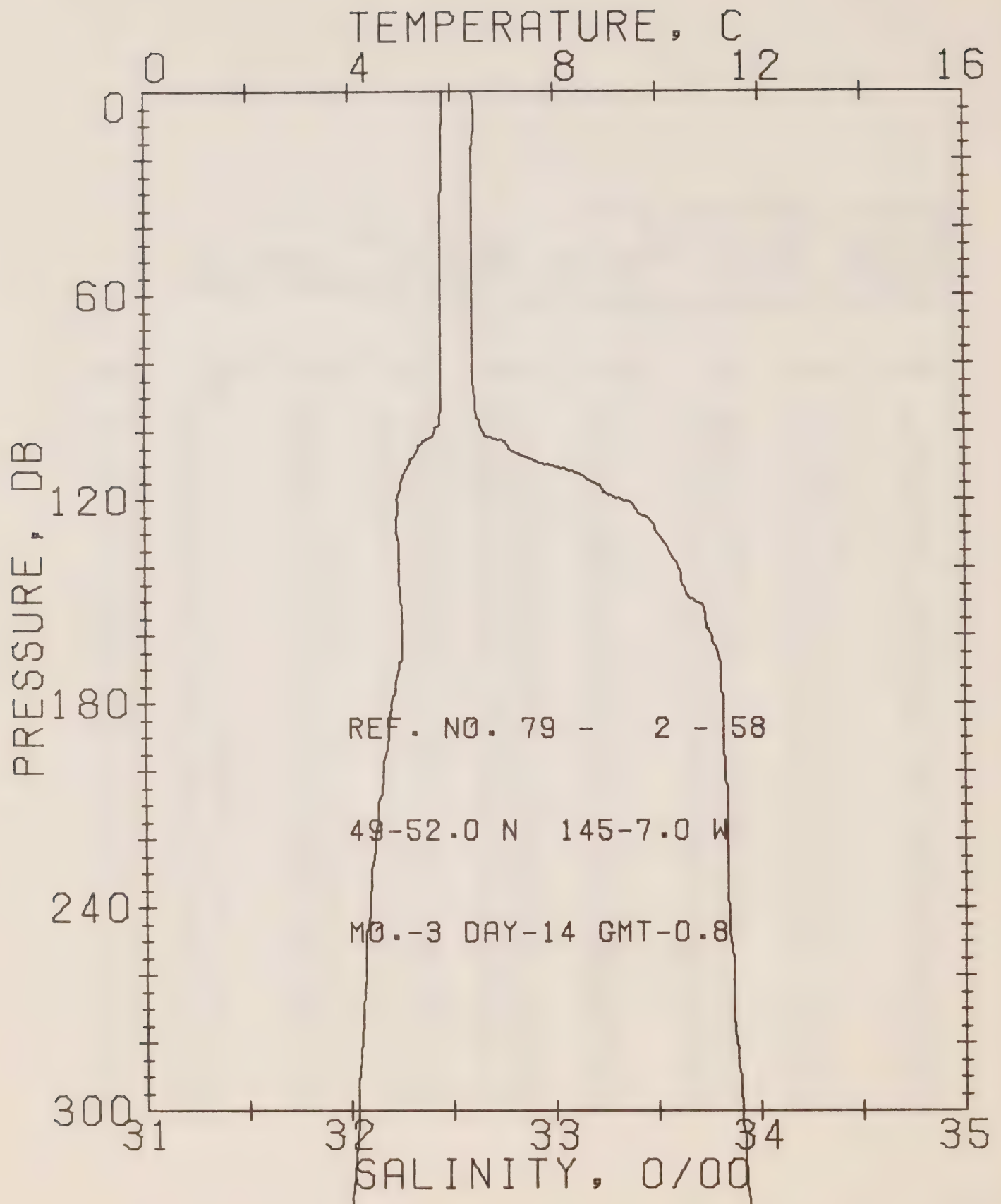
GMT 23.6

STATION W4

RESULTS OF STP CAST 146 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.83	32.61	0	25.71	229.0	.00	.00	1471.
10	5.82	32.61	10	25.71	229.0	.23	.01	1471.
20	5.79	32.61	20	25.72	228.8	.46	.05	1471.
30	5.78	32.61	30	25.72	228.7	.69	.10	1471.
40	5.77	32.61	40	25.72	228.8	.92	.19	1472.
50	5.77	32.61	50	25.72	228.9	1.14	.29	1472.
60	5.77	32.61	60	25.72	229.0	1.37	.42	1472.
70	5.77	32.61	70	25.72	229.1	1.60	.57	1472.
80	5.76	32.61	79	25.72	229.1	1.83	.75	1472.
90	5.75	32.61	89	25.72	229.1	2.06	.95	1472.
100	5.67	32.64	99	25.75	225.9	2.29	1.17	1472.
110	5.38	32.76	109	25.88	213.8	2.51	1.40	1471.
120	5.11	32.96	119	26.07	196.0	2.72	1.64	1471.
130	4.87	33.17	129	26.26	177.7	2.90	1.88	1470.
140	4.92	33.41	139	26.45	160.3	3.07	2.11	1471.
150	4.94	33.56	149	26.56	149.5	3.23	2.34	1471.
160	4.88	33.70	159	26.68	138.5	3.37	2.57	1471.
170	4.78	33.75	169	26.73	133.7	3.50	2.80	1471.
180	4.78	33.78	179	26.76	131.6	3.64	3.03	1471.
190	4.72	33.80	189	26.78	129.1	3.77	3.28	1471.
200	4.66	33.81	199	26.79	128.2	3.90	3.53	1471.
210	4.60	33.82	209	26.81	126.7	4.02	3.80	1471.
220	4.51	33.83	218	26.83	125.3	4.15	4.07	1471.
230	4.42	33.84	228	26.84	123.7	4.27	4.36	1471.
240	4.40	33.84	238	26.85	123.5	4.40	4.66	1471.
250	4.31	33.84	248	26.86	122.3	4.52	4.96	1471.
260	4.25	33.85	258	26.87	121.1	4.64	5.28	1471.
270	4.20	33.86	268	26.88	120.2	4.76	5.60	1471.
280	4.14	33.88	278	26.90	118.2	4.88	5.94	1471.
290	4.11	33.89	288	26.92	116.8	5.00	6.28	1471.
300	4.08	33.90	298	26.93	115.8	5.11	6.63	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 58

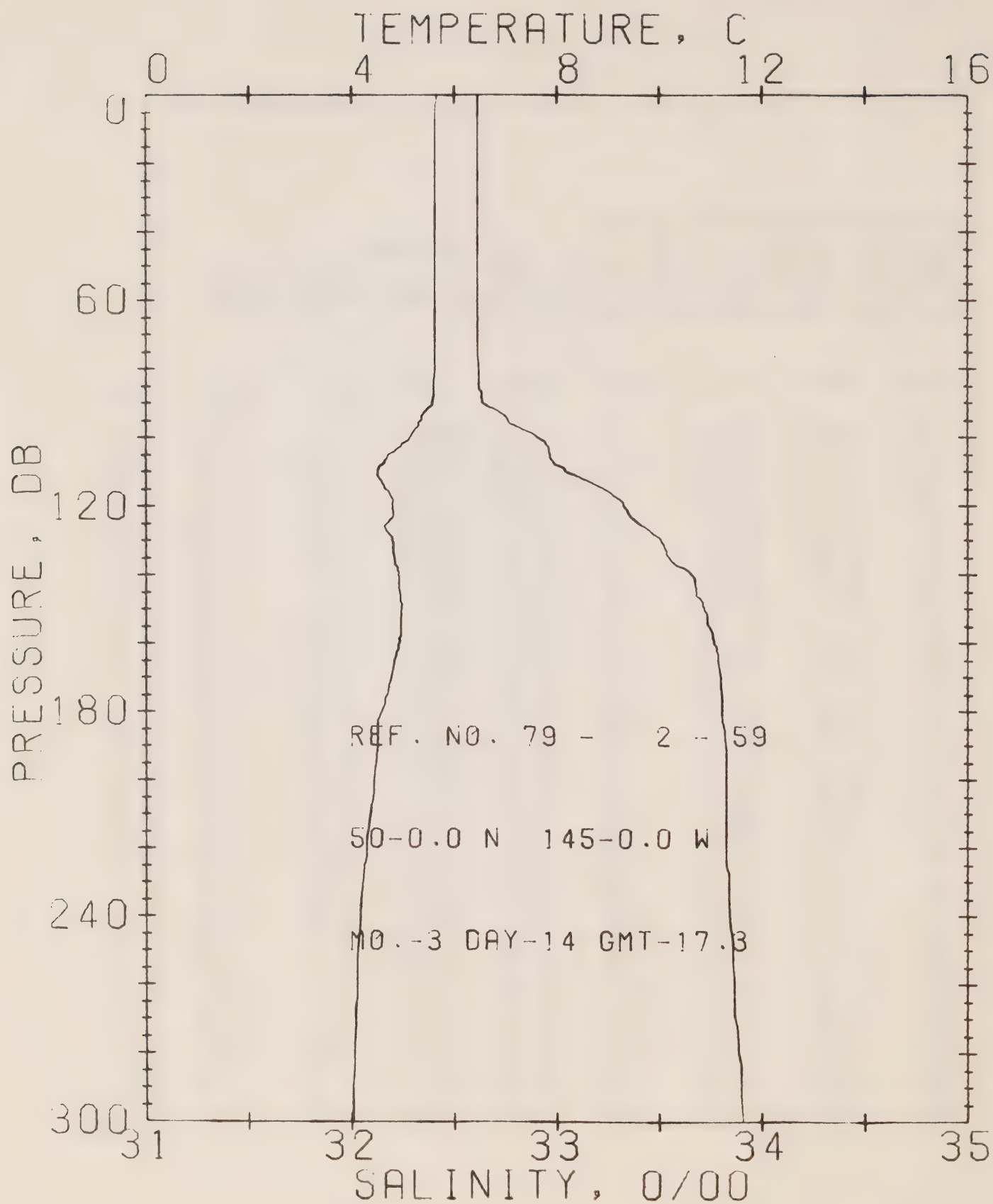
DATE 14/ 3/79

POSITION 49-52.0N, 145- 7.0W GMT .8 STATION W3

RESULTS OF STP CAST 130 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.85	32.60	0	25.70	230.0	.00	.00	1471.
10	5.82	32.61	10	25.71	229.0	.23	.01	1471.
20	5.82	32.60	20	25.70	229.9	.46	.05	1472.
30	5.80	32.60	30	25.71	229.7	.69	.11	1472.
40	5.79	32.60	40	25.71	229.7	.92	.19	1472.
50	5.79	32.60	50	25.71	229.9	1.15	.29	1472.
60	5.79	32.60	60	25.71	230.0	1.38	.42	1472.
70	5.79	32.60	70	25.71	230.1	1.61	.57	1472.
80	5.79	32.60	79	25.71	230.2	1.84	.75	1472.
90	5.78	32.61	89	25.72	229.6	2.07	.95	1472.
100	5.66	32.65	99	25.76	225.1	2.30	1.17	1472.
110	5.14	32.98	109	26.08	194.7	2.51	1.40	1471.
120	4.92	33.33	119	26.39	166.2	2.69	1.61	1470.
130	4.93	33.50	129	26.52	153.7	2.85	1.81	1471.
140	4.97	33.60	139	26.59	147.0	3.00	2.01	1471.
150	4.98	33.68	149	26.65	141.0	3.14	2.23	1472.
160	5.02	33.76	159	26.71	135.5	3.28	2.45	1472.
170	4.95	33.81	169	26.76	131.1	3.41	2.67	1472.
180	4.81	33.82	179	26.78	128.9	3.54	2.90	1472.
190	4.74	33.82	189	26.79	128.2	3.67	3.14	1471.
200	4.65	33.83	199	26.81	126.6	3.80	3.40	1471.
210	4.54	33.84	209	26.83	124.8	3.92	3.66	1471.
220	4.49	33.84	218	26.84	124.3	4.05	3.93	1471.
230	4.40	33.84	228	26.85	123.4	4.17	4.22	1471.
240	4.36	33.85	238	26.85	122.7	4.29	4.51	1471.
250	4.30	33.86	248	26.87	121.4	4.42	4.82	1471.
260	4.29	33.87	258	26.88	120.3	4.54	5.13	1471.
270	4.24	33.87	268	26.89	119.9	4.66	5.46	1471.
280	4.21	33.88	278	26.90	118.9	4.78	5.79	1471.
290	4.15	33.90	288	26.92	116.9	4.89	6.13	1471.
300	4.13	33.91	298	26.93	116.0	5.01	6.48	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 59

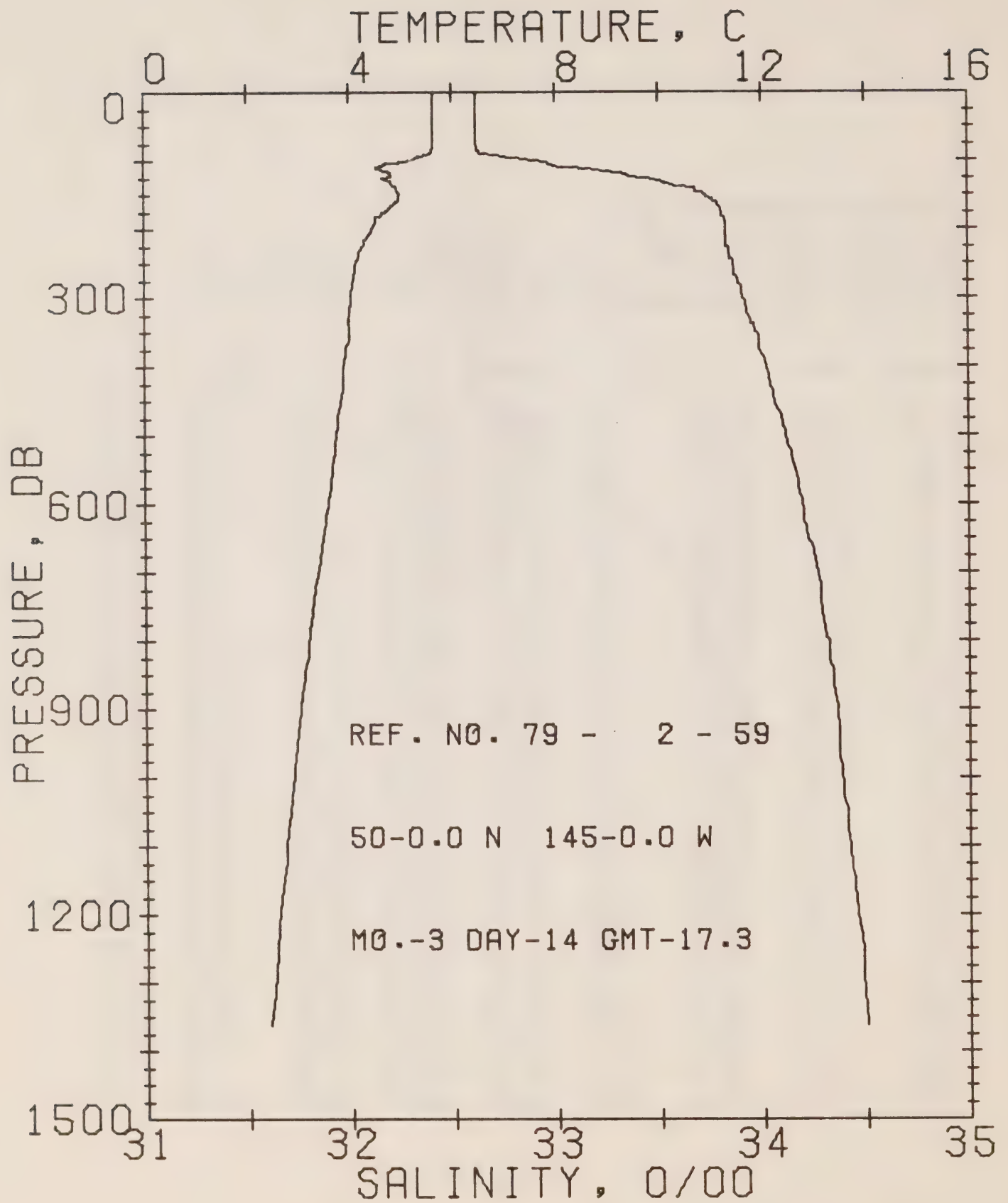
DATE 14/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 135 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.65	32.61	0	25.73	227.0	.00	.00	1470.
10	5.62	32.61	10	25.74	226.7	.23	.01	1471.
20	5.62	32.61	20	25.74	226.9	.45	.05	1471.
30	5.62	32.61	30	25.74	227.0	.68	.10	1471.
40	5.62	32.61	40	25.74	227.1	.91	.19	1471.
50	5.62	32.61	50	25.74	227.2	1.13	.29	1471.
60	5.62	32.61	60	25.74	227.3	1.36	.42	1471.
70	5.62	32.61	70	25.74	227.4	1.59	.57	1472.
80	5.62	32.62	79	25.74	226.7	1.82	.74	1472.
90	5.58	32.63	89	25.76	225.6	2.04	.94	1472.
100	5.15	32.90	99	26.02	200.7	2.26	1.14	1470.
110	4.52	33.04	109	26.20	183.6	2.45	1.35	1468.
120	4.80	33.33	119	26.40	164.9	2.62	1.55	1470.
130	4.81	33.51	129	26.54	151.6	2.78	1.75	1470.
140	4.93	33.66	139	26.64	141.8	2.93	1.96	1471.
150	4.98	33.72	149	26.69	138.0	3.07	2.16	1472.
160	4.93	33.77	159	26.73	133.8	3.20	2.38	1472.
170	4.77	33.80	169	26.77	129.9	3.33	2.60	1471.
180	4.59	33.81	179	26.80	127.2	3.46	2.83	1471.
190	4.50	33.83	189	26.82	125.1	3.59	3.06	1470.
200	4.45	33.83	199	26.83	124.4	3.71	3.31	1470.
210	4.36	33.83	208	26.84	123.5	3.84	3.57	1470.
220	4.29	33.83	218	26.85	122.9	3.96	3.84	1470.
230	4.21	33.84	228	26.87	121.5	4.08	4.12	1470.
240	4.17	33.85	238	26.87	120.6	4.20	4.41	1470.
250	4.12	33.86	248	26.89	119.2	4.32	4.71	1470.
260	4.10	33.87	258	26.90	118.3	4.44	5.02	1470.
270	4.08	33.87	268	26.91	117.9	4.56	5.34	1470.
280	4.04	33.89	278	26.92	116.4	4.68	5.67	1470.
290	4.03	33.90	288	26.93	115.6	4.79	6.00	1470.
300	4.03	33.91	298	26.94	114.9	4.91	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 59

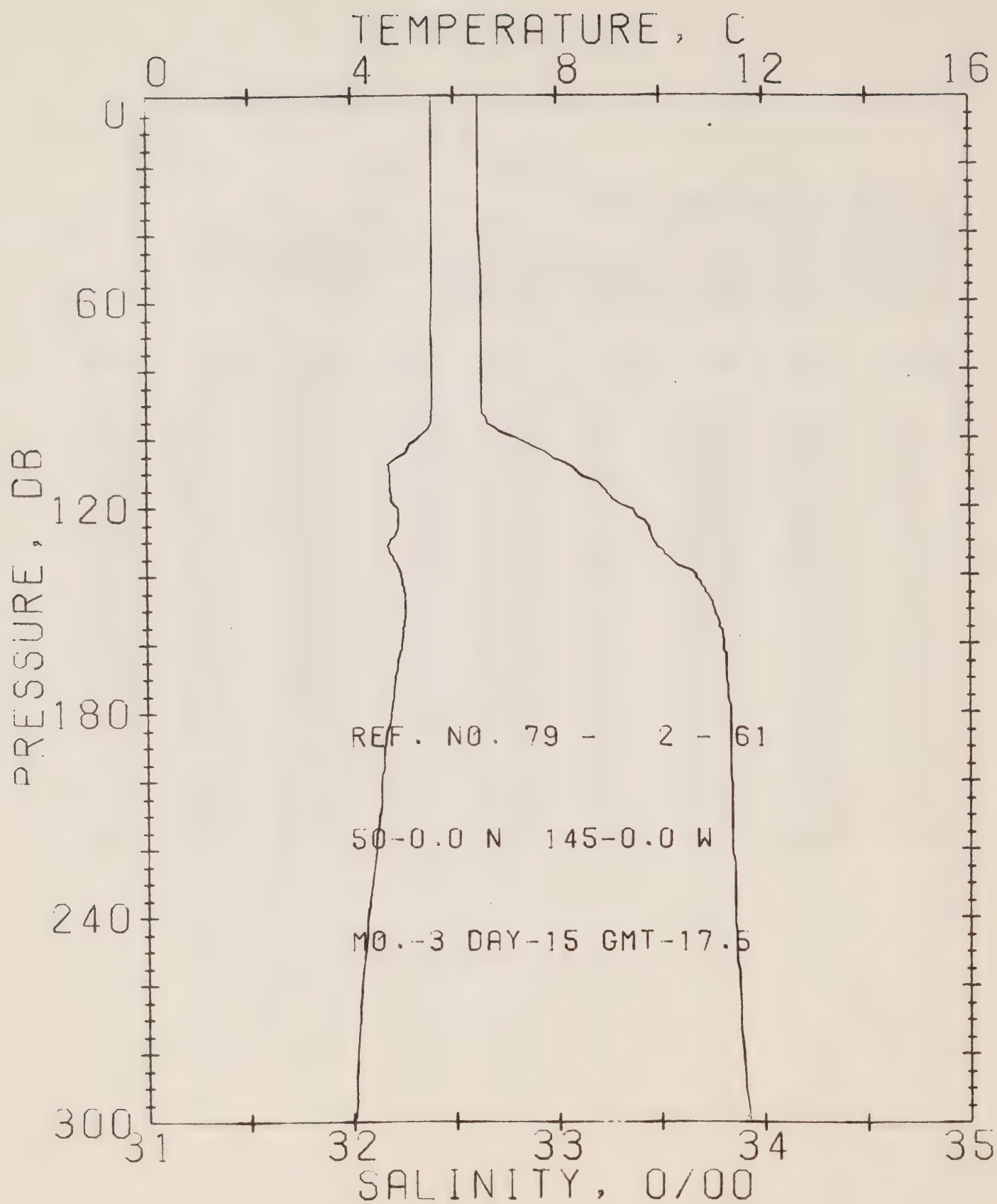
DATE 14/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 246 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.65	32.61	0	25.73	227.0	.00	.00	1470.
10	5.62	32.61	10	25.74	226.7	.23	.01	1471.
20	5.62	32.61	20	25.74	226.9	.45	.05	1471.
30	5.62	32.61	30	25.74	227.0	.68	.10	1471.
50	5.62	32.61	50	25.74	227.2	1.13	.29	1471.
75	5.62	32.61	75	25.74	227.4	1.70	.65	1472.
100	5.15	32.90	99	26.02	200.7	2.26	1.14	1470.
125	4.70	33.40	124	26.46	158.6	2.70	1.65	1470.
150	4.98	33.72	149	26.69	138.0	3.07	2.16	1472.
175	4.69	33.81	174	26.79	128.3	3.40	2.71	1471.
200	4.45	33.83	199	26.83	124.4	3.71	3.31	1470.
225	4.25	33.83	223	26.85	122.6	4.02	3.98	1470.
250	4.12	33.86	248	26.89	119.2	4.32	4.71	1470.
300	4.03	33.91	298	26.94	114.9	4.91	6.35	1470.
400	3.88	34.02	397	27.04	106.2	6.01	10.28	1472.
500	3.73	34.11	496	27.13	98.4	7.04	14.98	1473.
600	3.57	34.19	595	27.21	91.6	7.99	20.29	1474.
800	3.18	34.32	793	27.35	79.3	9.69	32.40	1476.
1000	2.87	34.38	990	27.43	72.4	11.20	46.25	1478.
1200	2.59	34.46	1188	27.51	65.1	12.58	61.63	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 61

DATE 15/ 3/79

POSITION 50- .0N, 145- .0W

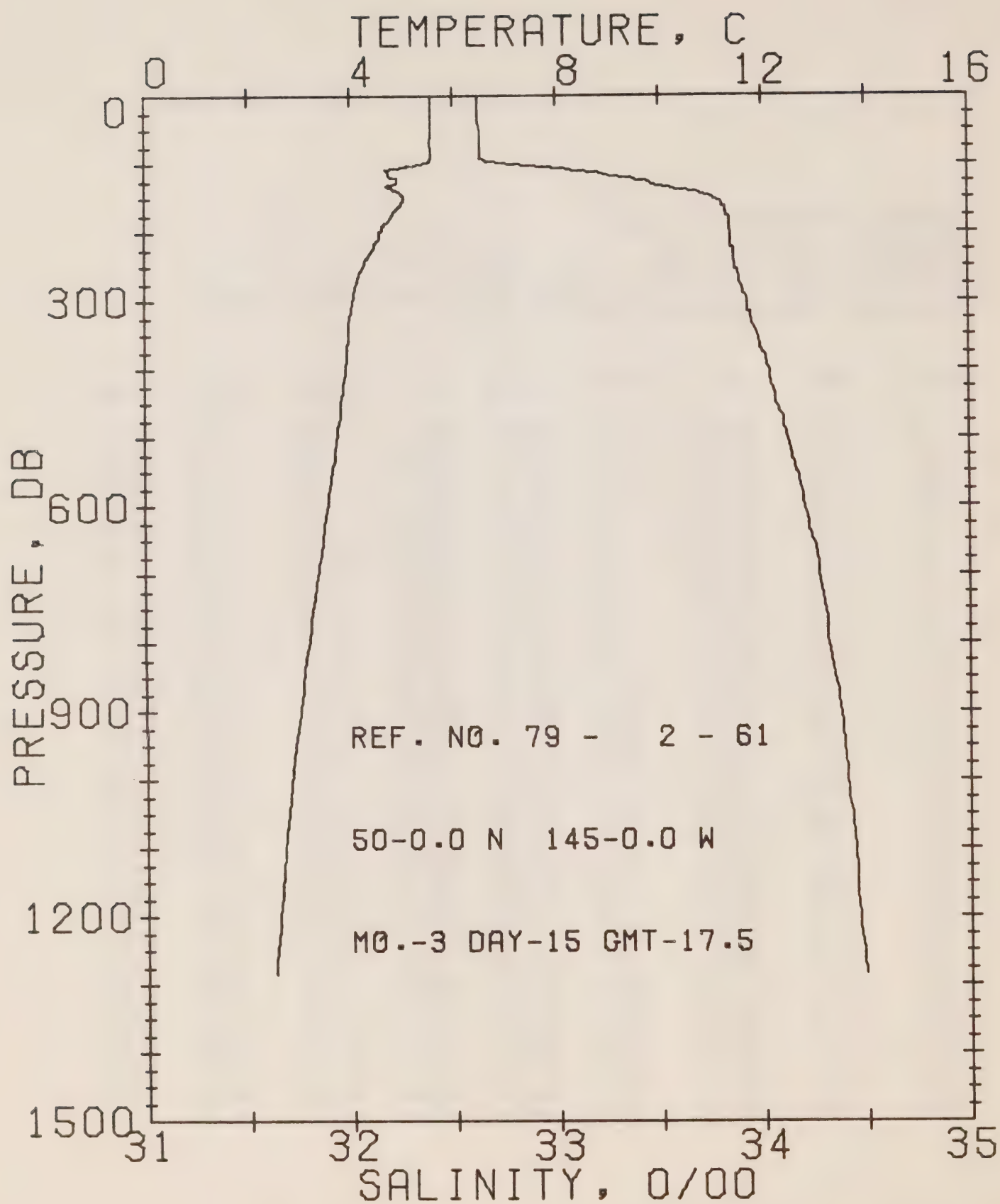
GMT 17.5

STATION P

RESULTS OF STP CAST 131 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.62	0	25.75	225.2	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.56	32.62	20	25.75	225.4	.45	.05	1470.
30	5.56	32.62	30	25.75	225.5	.68	.10	1471.
40	5.56	32.62	40	25.75	225.6	.90	.18	1471.
50	5.56	32.63	50	25.76	225.1	1.13	.29	1471.
60	5.56	32.63	60	25.76	225.0	1.35	.41	1471.
70	5.55	32.63	70	25.76	225.1	1.58	.56	1471.
80	5.56	32.63	79	25.76	225.3	1.80	.73	1471.
90	5.56	32.63	89	25.76	225.4	2.03	.93	1472.
100	5.30	32.80	99	25.92	209.8	2.25	1.14	1471.
110	4.74	33.10	109	26.22	181.3	2.44	1.35	1469.
120	4.82	33.32	119	26.39	165.8	2.62	1.55	1470.
130	4.74	33.47	129	26.52	153.9	2.78	1.76	1470.
140	4.96	33.67	139	26.65	141.4	2.92	1.96	1471.
150	5.04	33.76	149	26.71	135.6	3.06	2.17	1472.
160	4.97	33.81	159	26.76	131.2	3.20	2.38	1472.
170	4.82	33.82	169	26.78	128.9	3.33	2.59	1471.
180	4.76	33.84	179	26.81	126.8	3.45	2.82	1471.
190	4.63	33.84	189	26.82	125.5	3.58	3.06	1471.
200	4.56	33.84	199	26.83	124.6	3.70	3.31	1471.
210	4.53	33.85	208	26.84	123.9	3.83	3.57	1471.
220	4.46	33.85	218	26.85	123.3	3.95	3.84	1471.
230	4.37	33.86	228	26.86	121.6	4.07	4.12	1471.
240	4.29	33.86	238	26.87	120.8	4.20	4.41	1470.
250	4.24	33.87	248	26.89	119.7	4.32	4.71	1470.
260	4.15	33.88	258	26.90	118.1	4.43	5.02	1470.
270	4.12	33.89	268	26.91	117.1	4.55	5.34	1470.
280	4.09	33.90	278	26.93	116.1	4.67	5.66	1470.
290	4.06	33.91	288	26.94	115.2	4.78	6.00	1470.
300	4.03	33.93	298	26.96	113.4	4.90	6.34	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 61

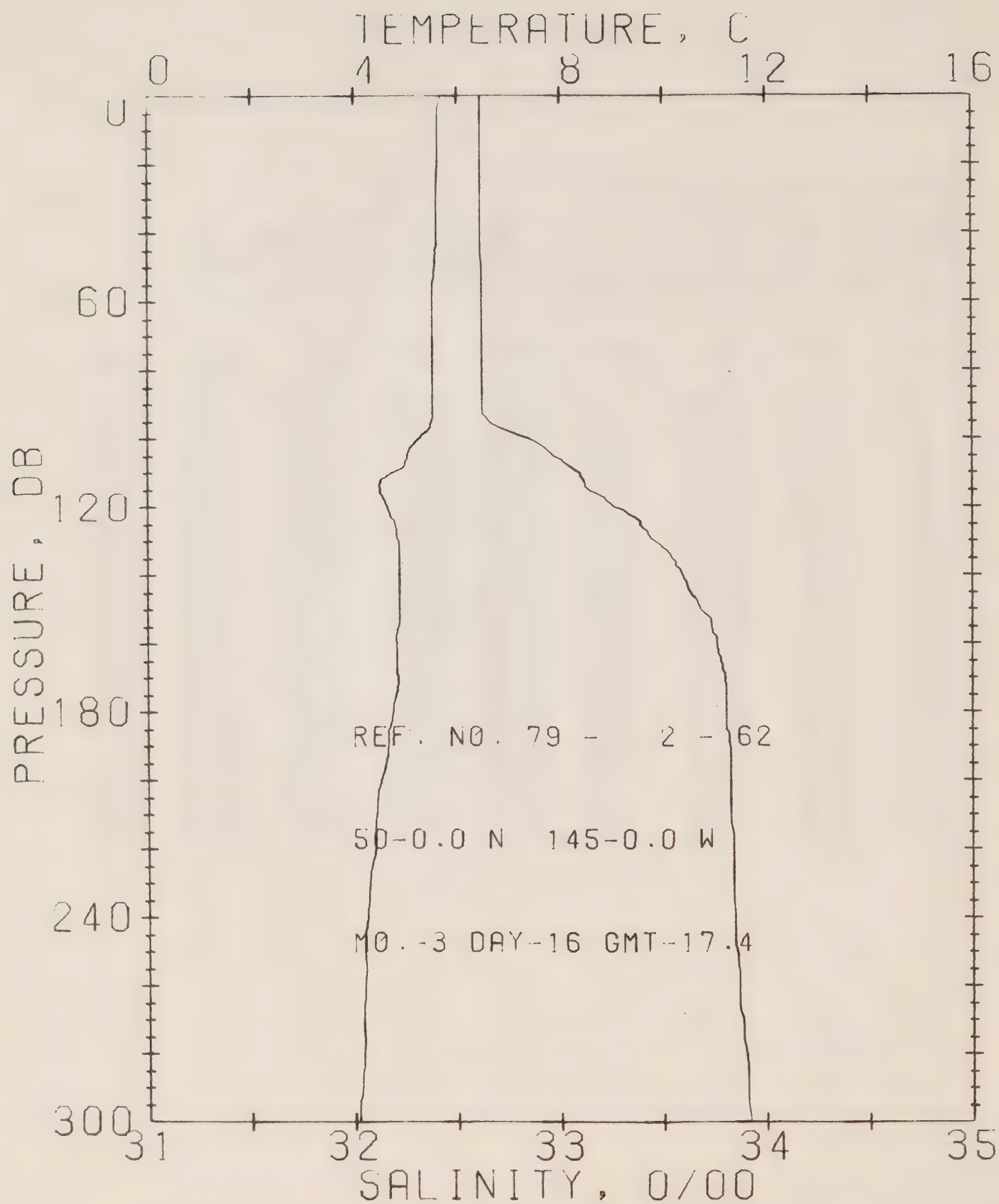
DATE 15/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 224 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.62	0	25.75	225.2	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.56	32.62	20	25.75	225.4	.45	.05	1470.
30	5.56	32.62	30	25.75	225.5	.68	.10	1471.
50	5.56	32.63	50	25.76	225.1	1.13	.29	1471.
75	5.56	32.63	75	25.76	225.2	1.69	.65	1471.
100	5.30	32.80	99	25.92	209.8	2.25	1.14	1471.
125	4.90	33.43	124	26.47	158.2	2.70	1.66	1471.
150	5.04	33.76	149	26.71	135.6	3.06	2.17	1472.
175	4.80	33.83	174	26.79	128.0	3.39	2.71	1471.
200	4.56	33.84	199	26.83	124.6	3.70	3.31	1471.
225	4.42	33.86	223	26.86	122.1	4.01	3.98	1471.
250	4.24	33.87	248	26.89	119.7	4.32	4.71	1470.
300	4.03	33.93	298	26.96	113.4	4.90	6.34	1470.
400	3.90	34.03	397	27.04	105.8	6.00	10.25	1472.
500	3.72	34.11	496	27.13	97.9	7.02	14.92	1473.
600	3.54	34.20	595	27.22	90.8	7.96	20.19	1474.
800	3.15	34.31	793	27.35	79.3	9.64	32.14	1475.
1000	2.81	34.40	990	27.45	70.3	11.12	45.71	1477.
1200	2.57	34.46	1188	27.51	64.6	12.46	60.73	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 62

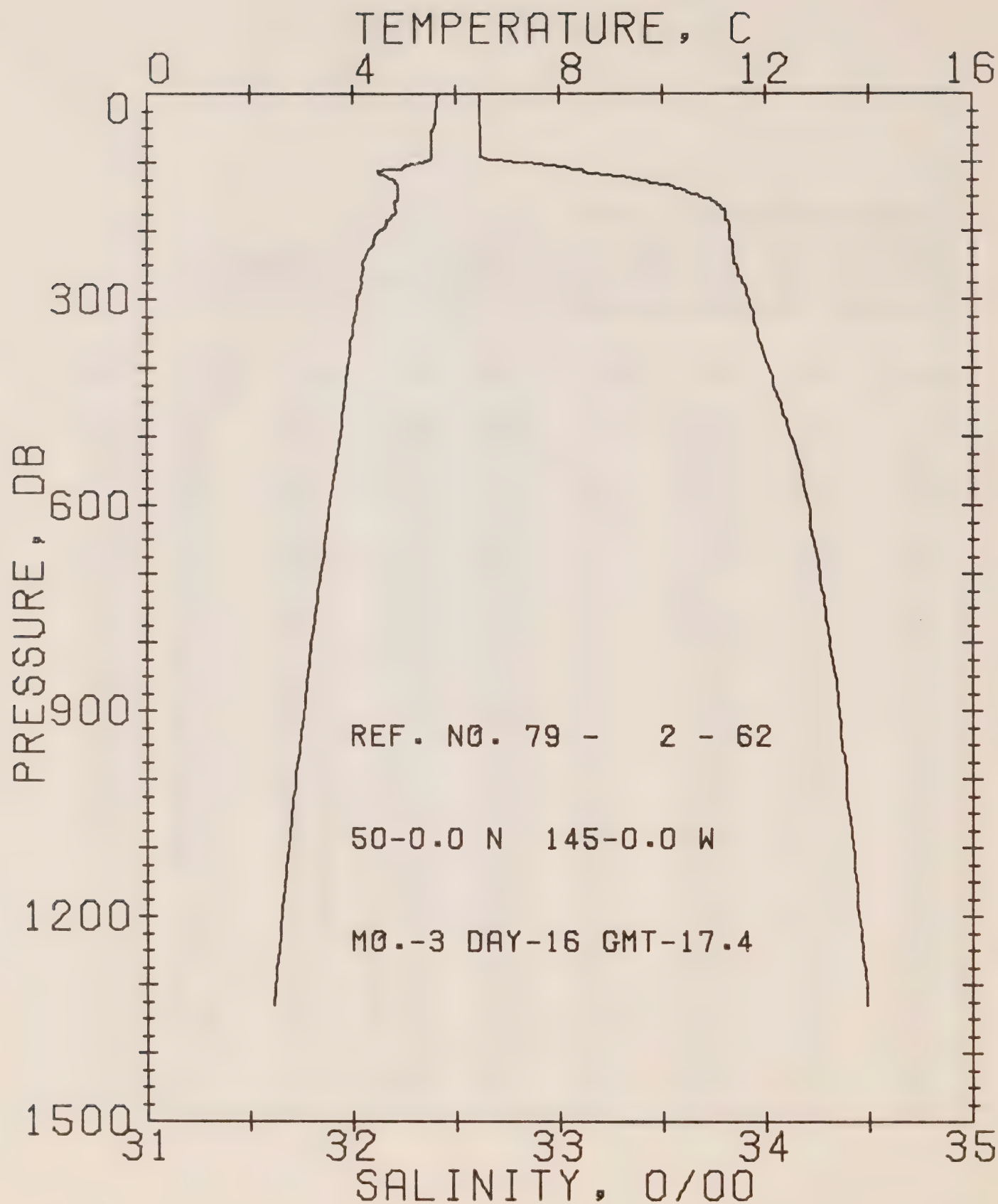
DATE 16/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.61	0	25.73	227.2	.00	.00	1471.
10	5.62	32.61	10	25.74	226.8	.23	.01	1471.
20	5.62	32.61	20	25.74	226.8	.45	.05	1471.
30	5.61	32.61	30	25.74	226.8	.68	.10	1471.
40	5.61	32.61	40	25.74	226.9	.91	.18	1471.
50	5.56	32.62	50	25.75	225.7	1.13	.29	1471.
60	5.52	32.62	60	25.76	225.4	1.36	.42	1471.
70	5.51	32.62	70	25.76	225.4	1.58	.56	1471.
80	5.51	32.62	79	25.76	225.5	1.81	.74	1471.
90	5.51	32.62	89	25.76	225.6	2.04	.93	1471.
100	5.24	32.85	99	25.97	205.4	2.26	1.15	1471.
110	4.71	33.09	109	26.22	181.8	2.45	1.35	1469.
120	4.64	33.26	119	26.36	168.4	2.63	1.56	1469.
130	4.86	33.46	129	26.49	155.9	2.79	1.76	1470.
140	4.88	33.59	139	26.60	146.5	2.94	1.97	1471.
150	4.89	33.68	149	26.67	140.0	3.08	2.18	1471.
160	4.82	33.76	159	26.74	133.3	3.21	2.40	1471.
170	4.85	33.80	169	26.76	130.7	3.35	2.62	1472.
180	4.75	33.81	179	26.78	129.0	3.48	2.85	1471.
190	4.65	33.82	189	26.81	126.9	3.60	3.09	1471.
200	4.51	33.83	199	26.83	125.1	3.73	3.34	1471.
210	4.41	33.83	208	26.84	124.2	3.85	3.60	1470.
220	4.39	33.84	218	26.85	123.3	3.98	3.87	1471.
230	4.29	33.84	228	26.86	122.2	4.10	4.15	1470.
240	4.24	33.85	238	26.87	121.1	4.22	4.44	1470.
250	4.20	33.86	248	26.88	120.3	4.34	4.75	1470.
260	4.19	33.87	258	26.89	119.2	4.46	5.06	1470.
270	4.16	33.88	268	26.91	117.9	4.58	5.38	1470.
280	4.17	33.90	278	26.92	117.0	4.70	5.71	1471.
290	4.13	33.91	288	26.93	115.9	4.82	6.05	1471.
300	4.08	33.92	298	26.94	114.7	4.93	6.39	1471.



OFFSHORE OCEANOGRAPHY GROUP

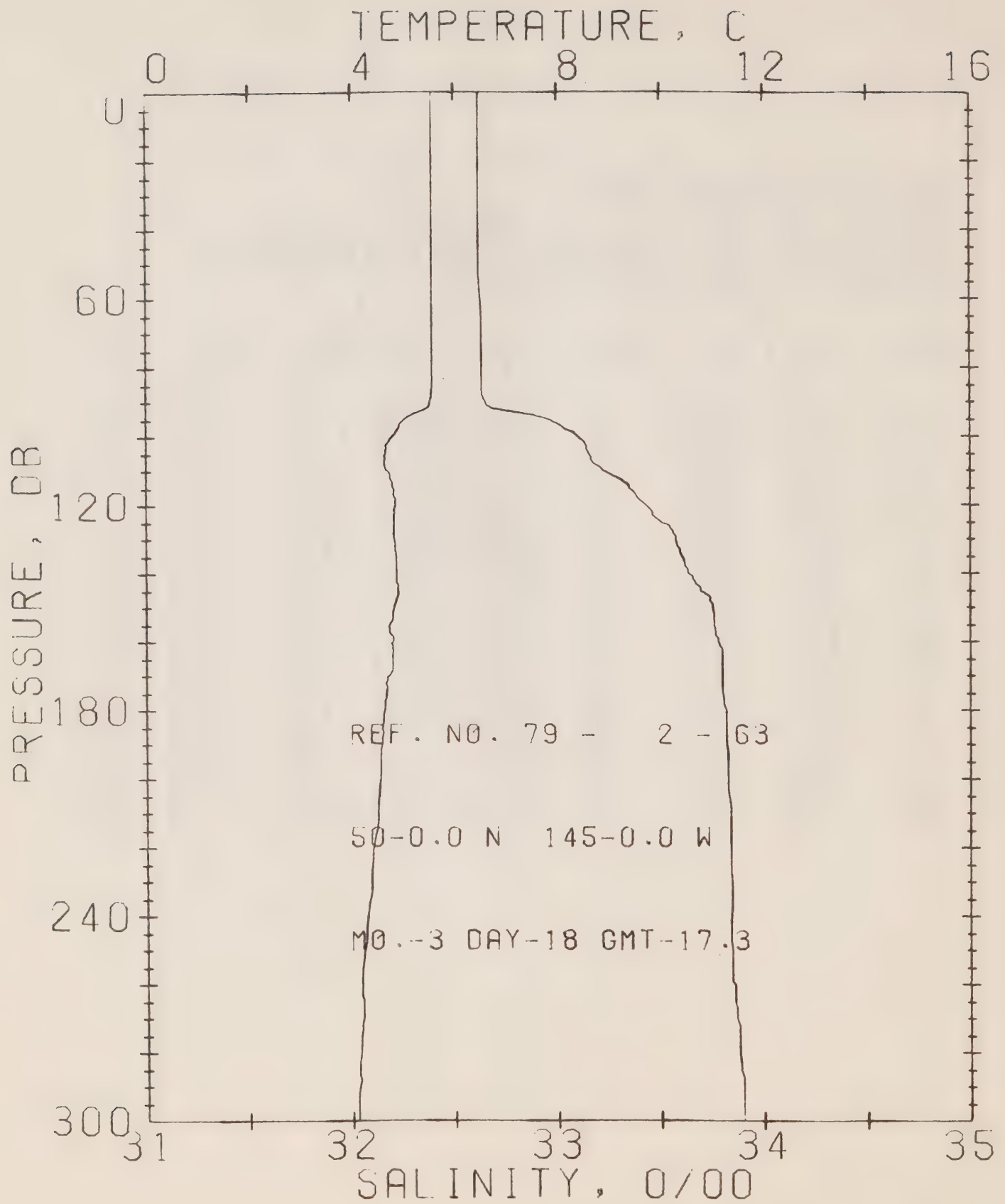
REFERENCE NO. 79- 2- 62 DATE 16/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.61	0	25.73	227.2	.00	.00	1471.
10	5.62	32.61	10	25.74	226.8	.23	.01	1471.
20	5.62	32.61	20	25.74	226.8	.45	.05	1471.
30	5.61	32.61	30	25.74	226.8	.68	.10	1471.
50	5.56	32.62	50	25.75	225.7	1.13	.29	1471.
75	5.51	32.62	75	25.76	225.4	1.70	.65	1471.
100	5.24	32.85	99	25.97	205.4	2.26	1.15	1471.
125	4.80	33.39	124	26.45	160.4	2.71	1.66	1470.
150	4.89	33.68	149	26.67	140.0	3.08	2.18	1471.
175	4.81	33.81	174	26.78	129.6	3.41	2.73	1471.
200	4.51	33.83	199	26.83	125.1	3.73	3.34	1471.
225	4.33	33.84	223	26.85	122.7	4.04	4.01	1470.
250	4.20	33.86	248	26.88	120.3	4.34	4.75	1470.
300	4.08	33.92	298	26.94	114.7	4.93	6.39	1471.
400	3.90	34.01	397	27.03	106.9	6.04	10.34	1472.
500	3.76	34.12	496	27.13	98.3	7.07	15.04	1473.
600	3.55	34.20	595	27.22	90.3	8.01	20.30	1474.
800	3.18	34.31	793	27.34	80.0	9.71	32.43	1476.
1000	2.88	34.39	990	27.43	72.0	11.23	46.33	1478.
1200	2.61	34.45	1188	27.50	66.0	12.61	61.77	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 63

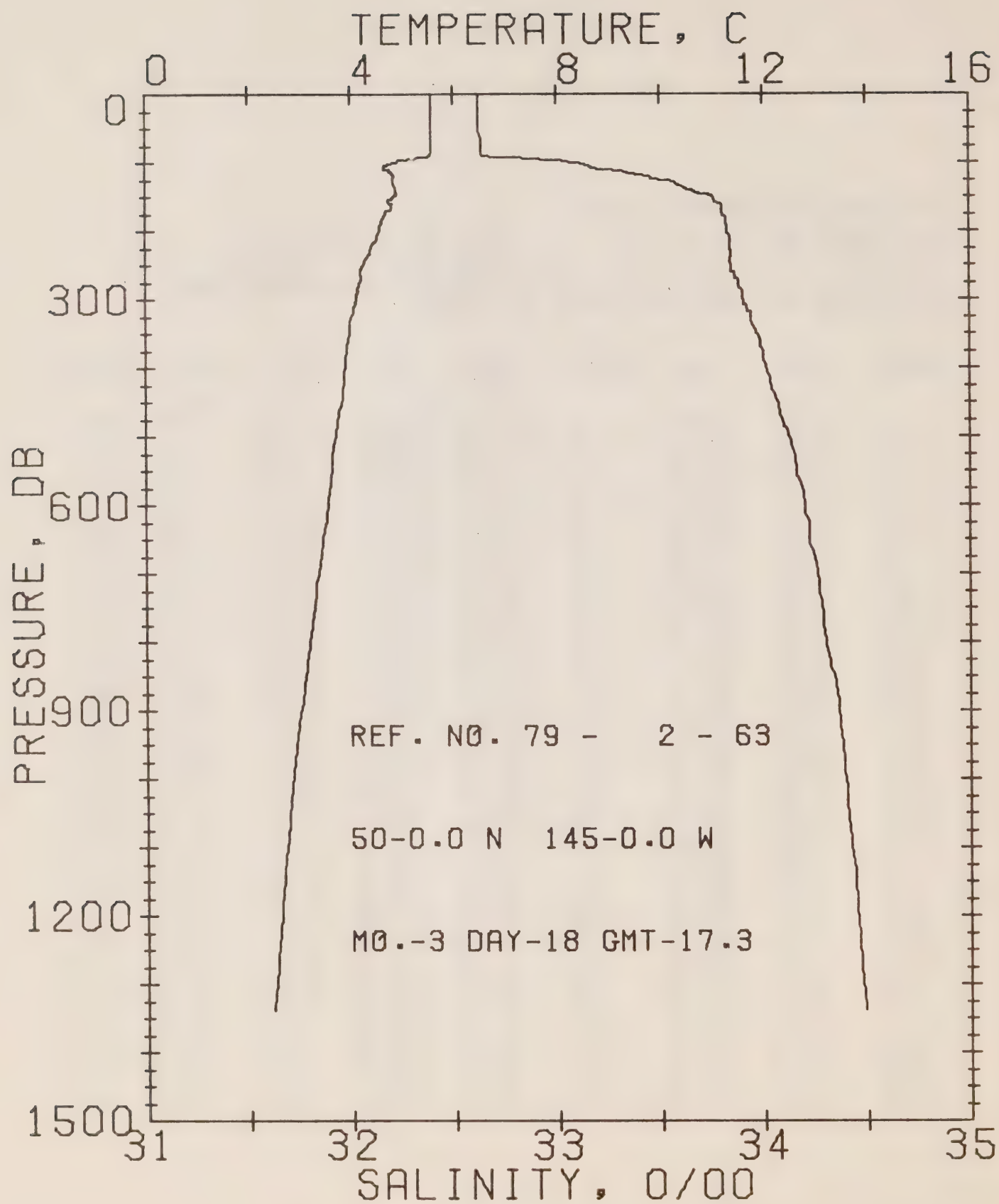
DATE 18/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.62	0	25.75	225.2	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.56	32.62	20	25.75	225.4	.45	.05	1470.
30	5.56	32.62	30	25.75	225.5	.68	.10	1471.
40	5.56	32.62	40	25.75	225.6	.90	.18	1471.
50	5.56	32.62	50	25.75	225.7	1.13	.29	1471.
60	5.56	32.63	60	25.76	225.4	1.35	.41	1471.
70	5.56	32.63	70	25.76	225.2	1.58	.56	1471.
80	5.56	32.63	79	25.76	225.3	1.80	.74	1471.
90	5.53	32.64	89	25.77	223.9	2.03	.93	1472.
100	4.83	33.09	99	26.21	183.0	2.23	1.12	1469.
110	4.67	33.22	109	26.33	171.7	2.41	1.31	1469.
120	4.85	33.43	119	26.47	157.9	2.57	1.51	1470.
130	4.84	33.57	129	26.58	147.4	2.72	1.70	1471.
140	4.88	33.63	139	26.63	143.5	2.87	1.90	1471.
150	4.83	33.75	149	26.73	134.1	3.01	2.10	1471.
160	4.82	33.78	159	26.75	131.8	3.14	2.31	1471.
170	4.76	33.80	169	26.77	129.8	3.27	2.53	1471.
180	4.63	33.82	179	26.80	126.9	3.40	2.76	1471.
190	4.58	33.82	189	26.81	126.5	3.52	3.00	1471.
200	4.55	33.83	199	26.82	125.5	3.65	3.25	1471.
210	4.51	33.84	208	26.83	124.4	3.78	3.51	1471.
220	4.41	33.84	218	26.84	123.5	3.90	3.78	1471.
230	4.37	33.85	228	26.86	122.4	4.02	4.07	1471.
240	4.31	33.84	238	26.86	122.3	4.14	4.36	1470.
250	4.24	33.85	248	26.87	121.2	4.27	4.66	1470.
260	4.18	33.86	258	26.88	119.9	4.39	4.98	1470.
270	4.22	33.87	268	26.89	119.7	4.51	5.30	1471.
280	4.15	33.88	278	26.90	118.3	4.63	5.63	1471.
290	4.13	33.90	288	26.92	116.6	4.74	5.97	1471.
300	4.10	33.90	298	26.92	116.4	4.86	6.32	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 63

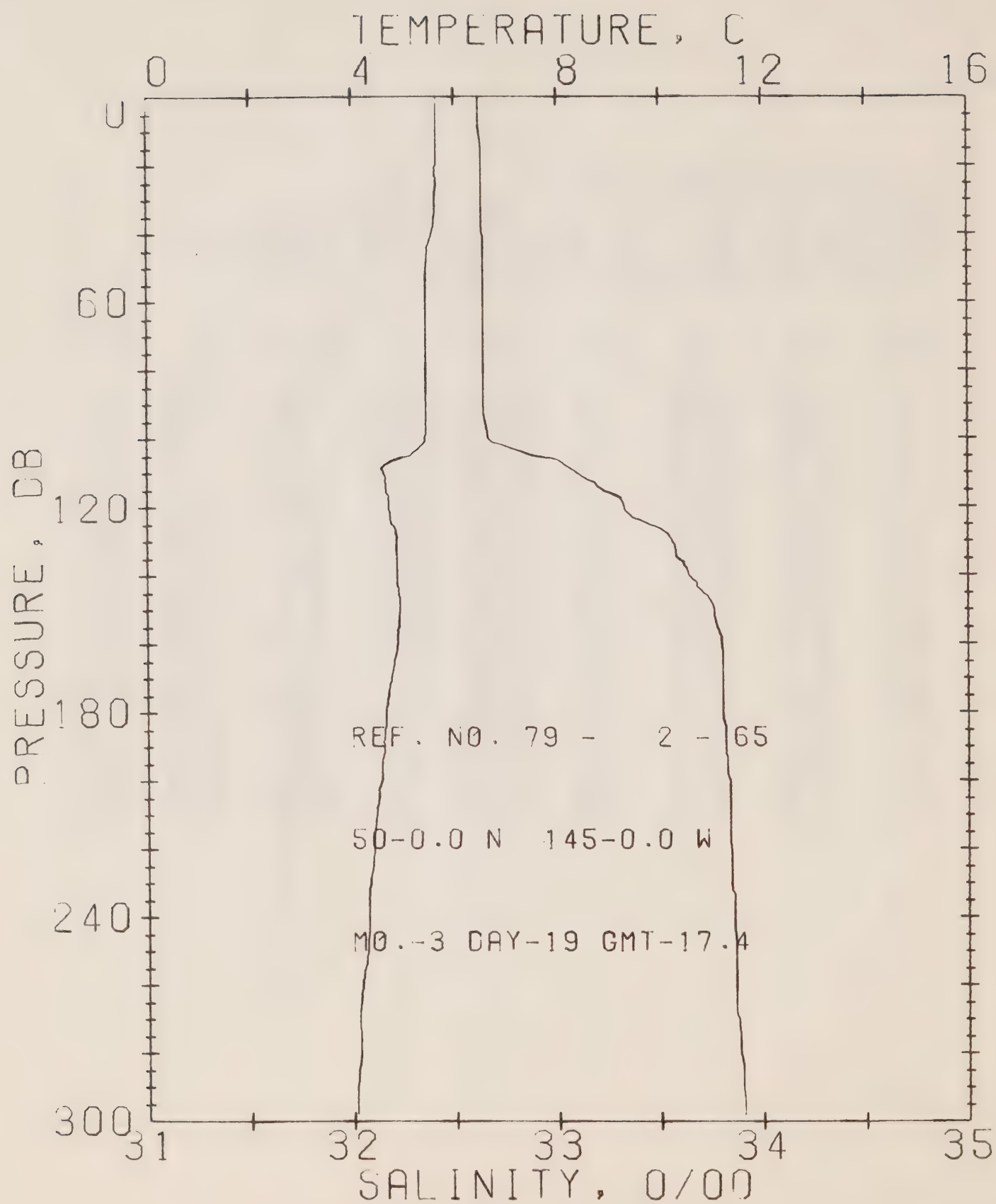
DATE 18/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 264 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.62	0	25.75	225.2	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.56	32.62	20	25.75	225.4	.45	.05	1470.
30	5.56	32.62	30	25.75	225.5	.68	.10	1471.
50	5.56	32.62	50	25.75	225.7	1.13	.29	1471.
75	5.56	32.63	75	25.76	225.2	1.69	.65	1471.
100	4.83	33.09	99	26.21	183.0	2.23	1.12	1469.
125	4.83	33.50	124	26.53	152.5	2.65	1.60	1470.
150	4.83	33.75	149	26.73	134.1	3.01	2.10	1471.
175	4.68	33.80	174	26.79	128.6	3.33	2.65	1471.
200	4.55	33.83	199	26.82	125.5	3.65	3.25	1471.
225	4.38	33.84	223	26.85	123.2	3.96	3.92	1471.
250	4.24	33.85	248	26.87	121.2	4.27	4.66	1470.
300	4.10	33.90	298	26.92	116.4	4.86	6.32	1471.
400	3.89	34.01	397	27.04	106.6	5.97	10.26	1472.
500	3.69	34.12	496	27.14	97.1	6.99	14.94	1473.
600	3.54	34.20	595	27.22	90.5	7.92	20.19	1474.
800	3.17	34.30	793	27.33	80.6	9.63	32.32	1475.
1000	2.85	34.39	990	27.44	71.4	11.13	46.08	1478.
1200	2.60	34.45	1188	27.51	65.5	12.50	61.38	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 65

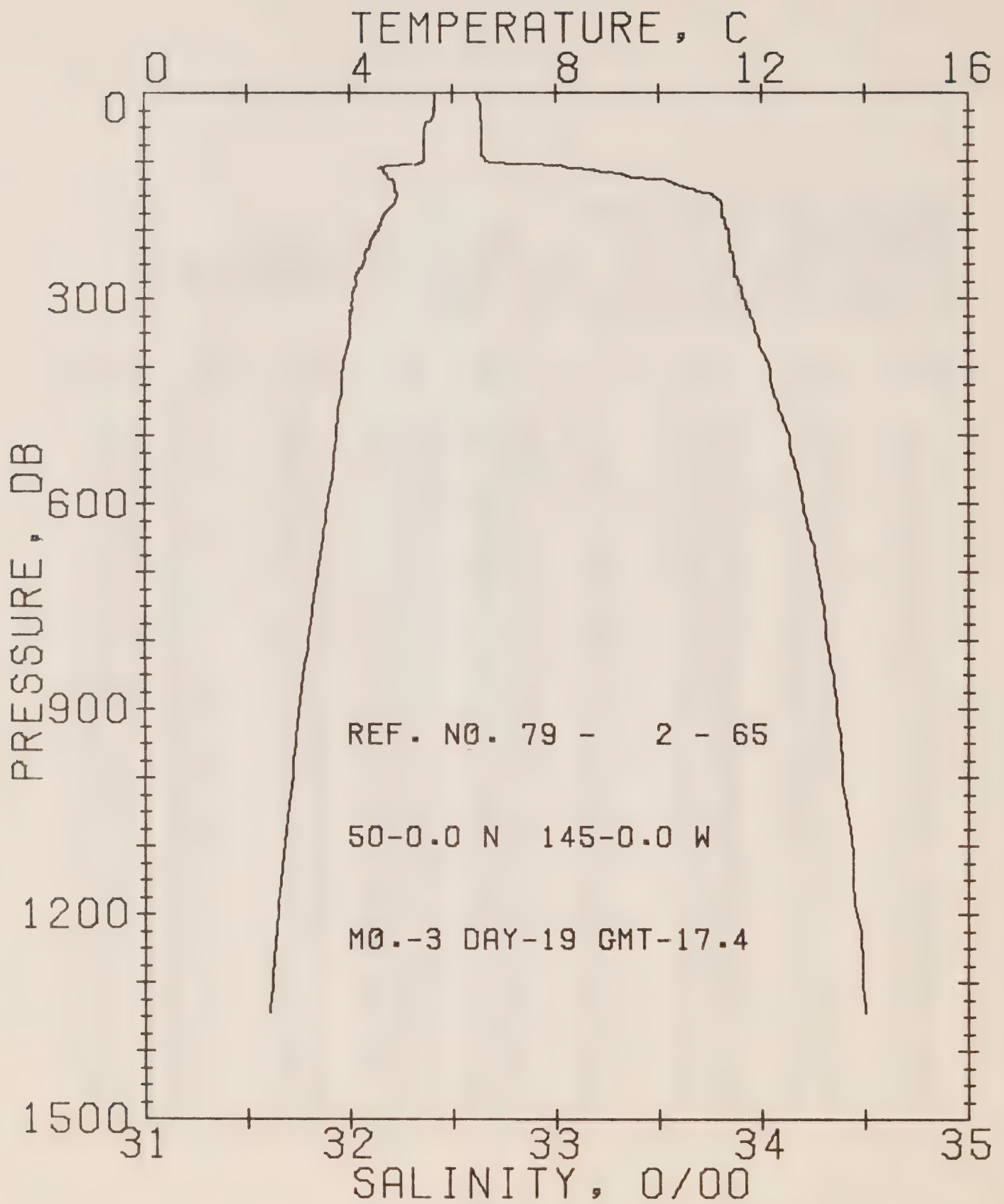
DATE 19/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.62	0	25.74	226.3	.00	.00	1471.
10	5.65	32.62	10	25.74	226.2	.23	.01	1471.
20	5.66	32.63	20	25.75	225.8	.45	.05	1471.
30	5.63	32.63	30	25.75	225.6	.68	.10	1471.
40	5.56	32.63	40	25.76	224.5	.90	.18	1471.
50	5.45	32.64	50	25.78	223.0	1.13	.29	1471.
60	5.44	32.64	60	25.78	223.0	1.35	.41	1471.
70	5.45	32.64	70	25.78	223.2	1.57	.56	1471.
80	5.44	32.64	79	25.78	223.2	1.80	.73	1471.
90	5.44	32.64	89	25.78	223.3	2.02	.92	1471.
100	5.42	32.66	99	25.80	221.7	2.24	1.14	1471.
110	4.61	33.09	109	26.23	180.8	2.44	1.35	1469.
120	4.73	33.32	119	26.40	164.5	2.61	1.55	1470.
130	4.87	33.56	129	26.57	148.5	2.77	1.75	1471.
140	4.88	33.64	139	26.63	142.7	2.92	1.95	1471.
150	4.93	33.77	149	26.73	133.7	3.05	2.16	1472.
160	4.87	33.80	159	26.76	130.9	3.19	2.37	1471.
170	4.76	33.81	169	26.78	129.0	3.32	2.58	1471.
180	4.64	33.81	179	26.80	127.8	3.44	2.81	1471.
190	4.60	33.82	189	26.81	126.7	3.57	3.05	1471.
200	4.55	33.84	199	26.83	124.8	3.70	3.30	1471.
210	4.45	33.84	208	26.84	123.8	3.82	3.56	1471.
220	4.40	33.85	218	26.85	122.8	3.94	3.83	1471.
230	4.32	33.85	228	26.86	121.9	4.07	4.11	1470.
240	4.29	33.86	238	26.87	120.9	4.19	4.40	1470.
250	4.26	33.87	248	26.88	119.9	4.31	4.70	1471.
260	4.16	33.87	258	26.90	118.9	4.43	5.01	1470.
270	4.11	33.88	268	26.91	117.8	4.55	5.33	1470.
280	4.13	33.89	278	26.91	117.3	4.66	5.66	1470.
290	4.06	33.90	288	26.93	115.9	4.78	6.00	1470.
300	4.04	33.91	298	26.94	115.1	4.90	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 65

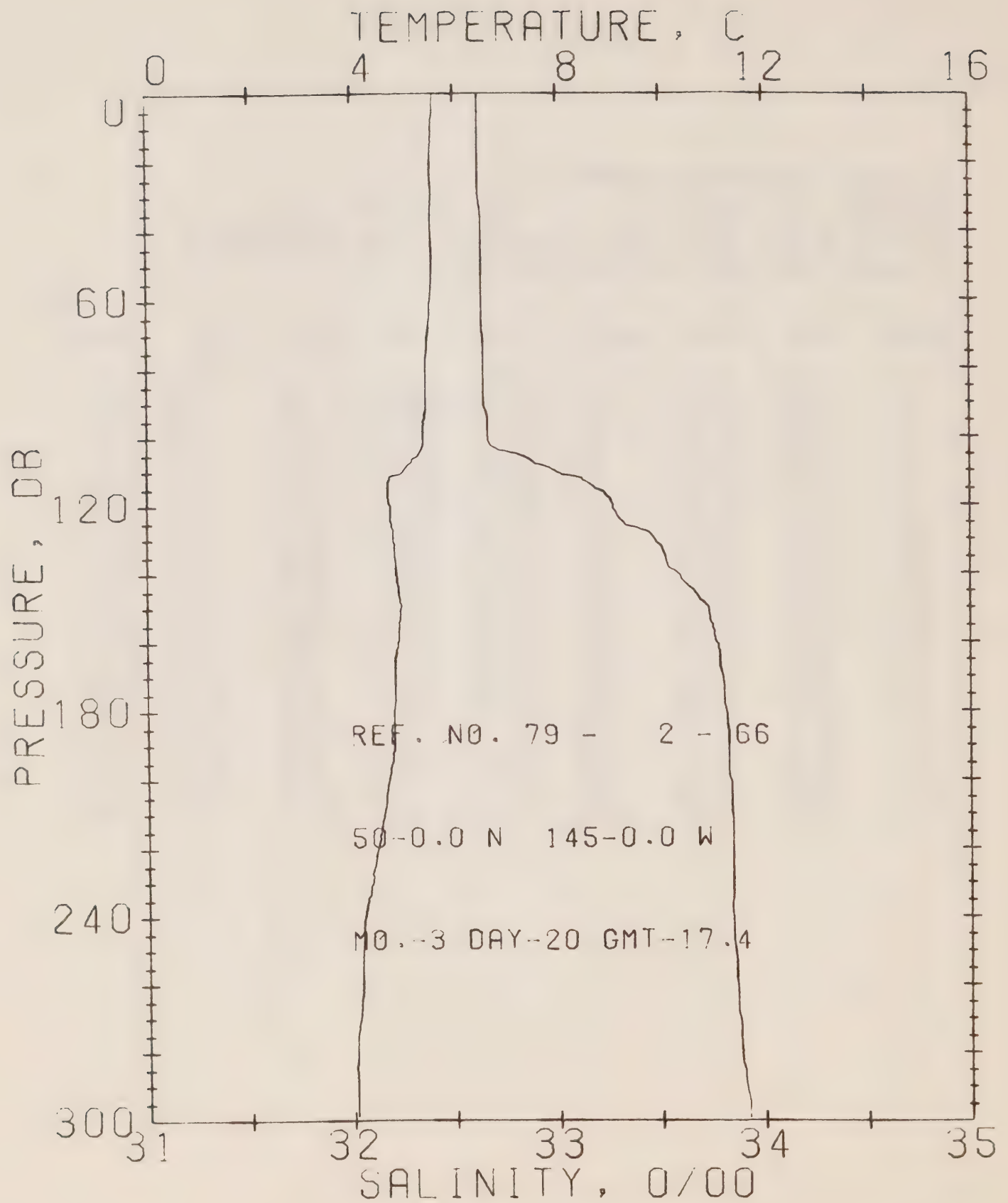
DATE 19/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 276 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.62	0	25.74	226.3	.00	.00	1471.
10	5.65	32.62	10	25.74	226.2	.23	.01	1471.
20	5.66	32.63	20	25.75	225.8	.45	.05	1471.
30	5.63	32.63	30	25.75	225.6	.68	.10	1471.
50	5.45	32.64	50	25.78	223.0	1.13	.29	1471.
75	5.44	32.64	75	25.78	223.2	1.68	.64	1471.
100	5.42	32.66	99	25.80	221.7	2.24	1.14	1471.
125	4.77	33.45	124	26.50	155.6	2.69	1.65	1470.
150	4.93	33.77	149	26.73	133.7	3.05	2.16	1472.
175	4.69	33.81	174	26.79	128.3	3.38	2.70	1471.
200	4.55	33.84	199	26.83	124.8	3.70	3.30	1471.
225	4.36	33.85	223	26.86	122.2	4.01	3.97	1470.
250	4.26	33.87	248	26.88	119.9	4.31	4.70	1471.
300	4.04	33.91	298	26.94	115.1	4.90	6.35	1470.
400	3.87	34.03	397	27.05	105.1	6.00	10.27	1472.
500	3.74	34.13	496	27.14	97.2	7.01	14.92	1473.
600	3.55	34.19	595	27.21	91.0	7.95	20.20	1474.
800	3.17	34.31	793	27.34	79.7	9.65	32.22	1475.
1000	2.86	34.39	990	27.43	71.8	11.14	45.94	1478.
1200	2.58	34.46	1188	27.51	64.8	12.50	61.15	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 66

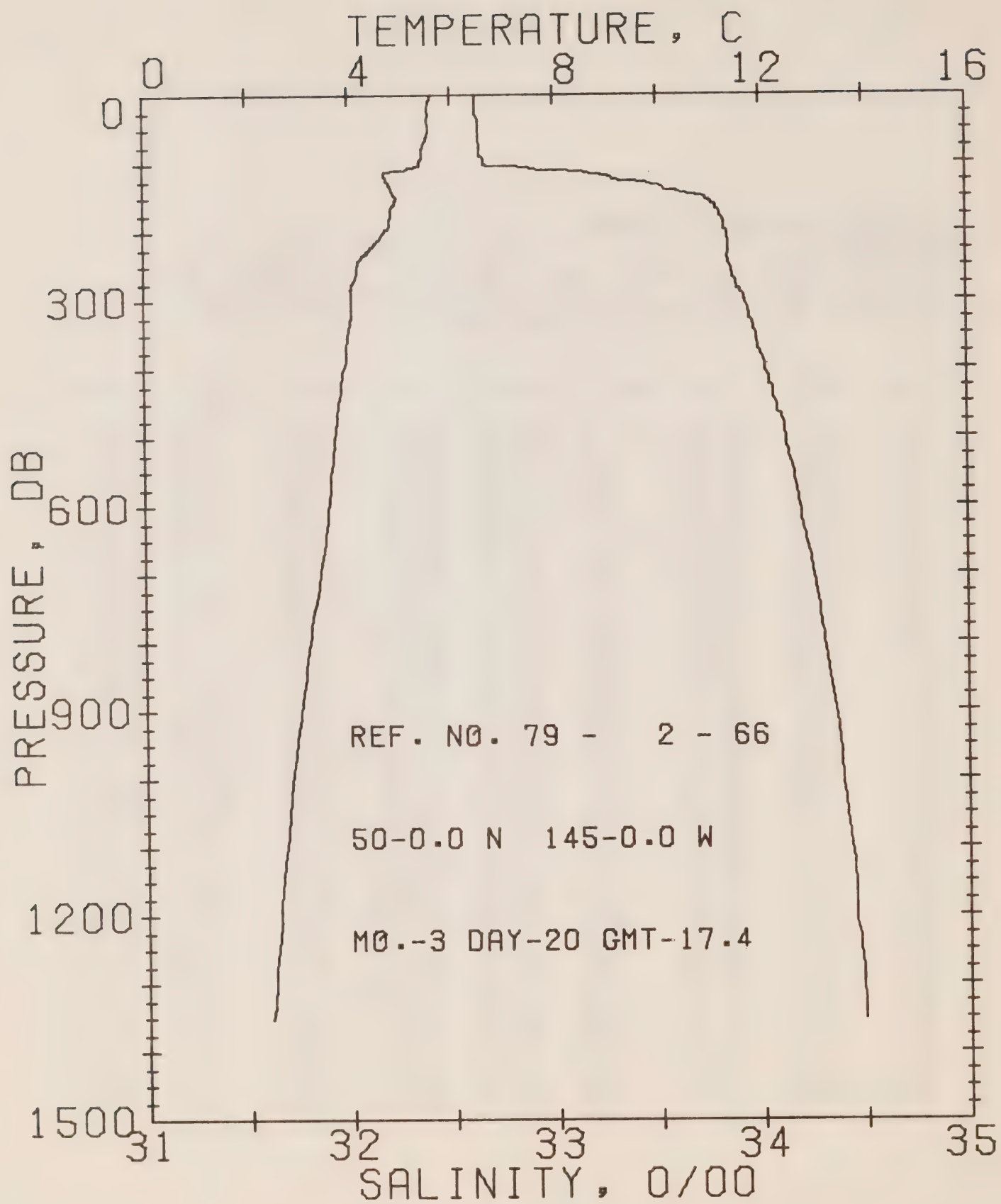
DATE 20/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 152 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.62	0	25.74	226.0	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.55	32.62	20	25.75	225.3	.45	.05	1470.
30	5.56	32.62	30	25.75	225.4	.68	.10	1471.
40	5.55	32.63	40	25.76	224.8	.90	.18	1471.
50	5.56	32.63	50	25.76	225.0	1.13	.29	1471.
60	5.54	32.63	60	25.76	224.9	1.35	.41	1471.
70	5.48	32.63	70	25.77	224.1	1.58	.56	1471.
80	5.45	32.64	79	25.78	223.3	1.80	.73	1471.
90	5.43	32.64	89	25.78	223.2	2.02	.93	1471.
100	5.39	32.66	99	25.80	221.3	2.24	1.14	1471.
110	5.01	32.98	109	26.10	192.9	2.45	1.37	1470.
120	4.73	33.27	119	26.36	168.6	2.63	1.57	1470.
130	4.81	33.47	129	26.51	154.6	2.79	1.78	1470.
140	4.86	33.58	139	26.59	147.0	2.95	1.99	1471.
150	4.95	33.73	149	26.70	136.9	3.09	2.20	1472.
160	4.90	33.77	159	26.74	133.4	3.22	2.41	1472.
170	4.82	33.80	169	26.77	130.4	3.36	2.63	1471.
180	4.81	33.82	179	26.78	129.1	3.48	2.87	1472.
190	4.80	33.83	189	26.79	128.1	3.61	3.11	1472.
200	4.70	33.84	199	26.81	126.8	3.74	3.36	1471.
210	4.61	33.84	208	26.83	125.1	3.87	3.62	1471.
220	4.47	33.85	218	26.85	123.4	3.99	3.90	1471.
230	4.36	33.85	228	26.86	122.3	4.11	4.18	1471.
240	4.22	33.84	238	26.87	121.2	4.24	4.47	1470.
250	4.17	33.85	248	26.88	120.1	4.36	4.77	1470.
260	4.15	33.86	258	26.89	119.3	4.48	5.08	1470.
270	4.11	33.88	268	26.91	118.0	4.59	5.40	1470.
280	4.04	33.89	278	26.92	116.7	4.71	5.73	1470.
290	4.05	33.91	288	26.93	115.3	4.83	6.07	1470.
300	4.04	33.92	298	26.95	113.9	4.94	6.41	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 66

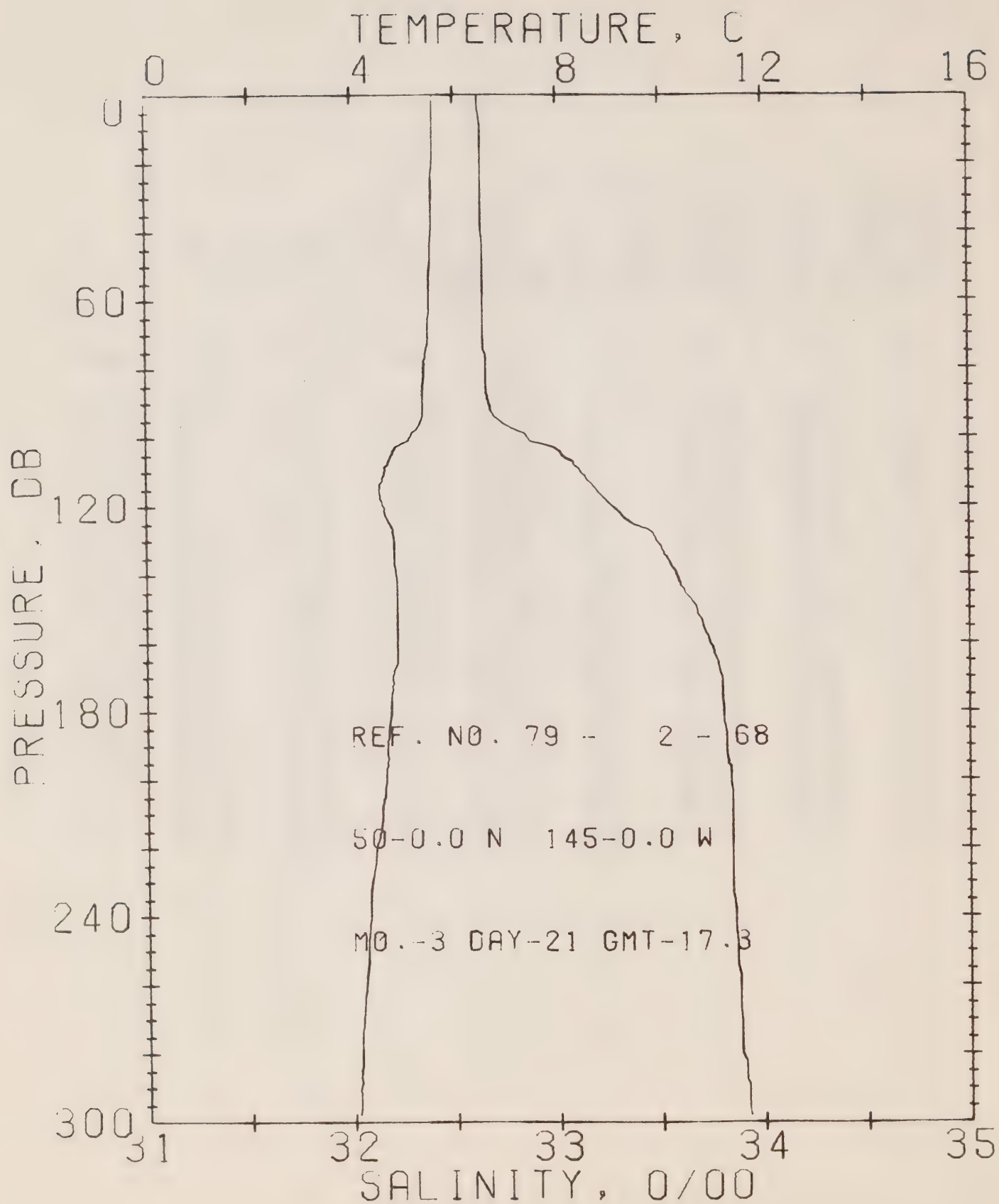
DATE 20/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.62	0	25.74	226.0	.00	.00	1470.
10	5.56	32.62	10	25.75	225.3	.23	.01	1470.
20	5.55	32.62	20	25.75	225.3	.45	.05	1470.
30	5.56	32.62	30	25.75	225.4	.68	.10	1471.
50	5.56	32.63	50	25.76	225.0	1.13	.29	1471.
75	5.46	32.64	75	25.78	223.4	1.69	.64	1471.
100	5.39	32.66	99	25.80	221.3	2.24	1.14	1471.
125	4.76	33.32	124	26.39	165.3	2.72	1.68	1470.
150	4.95	33.73	149	26.70	136.9	3.09	2.20	1472.
175	4.82	33.81	174	26.78	129.7	3.42	2.75	1472.
200	4.70	33.84	199	26.81	126.8	3.74	3.36	1471.
225	4.42	33.85	223	26.85	122.8	4.05	4.04	1471.
250	4.17	33.85	248	26.88	120.1	4.36	4.77	1470.
300	4.04	33.92	298	26.95	113.9	4.94	6.41	1470.
400	3.89	34.02	397	27.04	106.1	6.04	10.33	1472.
500	3.72	34.12	496	27.14	97.6	7.06	14.98	1473.
600	3.60	34.18	595	27.20	92.2	8.01	20.30	1474.
800	3.20	34.30	793	27.33	80.7	9.74	32.58	1476.
1000	2.85	34.39	990	27.43	71.8	11.25	46.42	1478.
1200	2.59	34.45	1188	27.51	65.5	12.61	61.65	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 68

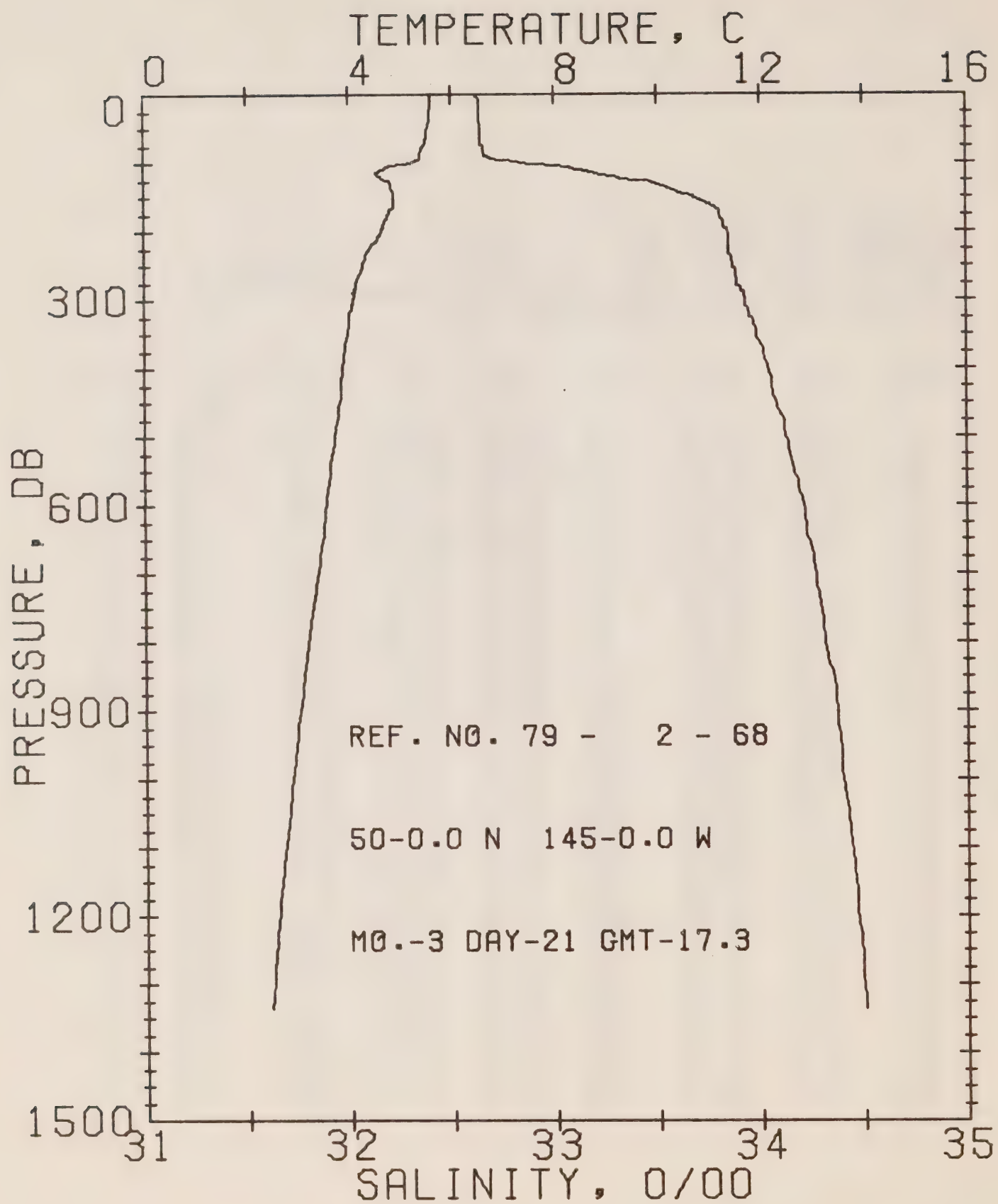
DATE 21/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 160 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.62	0	25.75	225.6	.00	.00	1470.
10	5.59	32.63	10	25.76	224.9	.23	.01	1470.
20	5.59	32.63	20	25.76	225.0	.45	.05	1471.
30	5.58	32.63	30	25.76	225.0	.68	.10	1471.
40	5.56	32.63	40	25.76	224.7	.90	.18	1471.
50	5.54	32.64	50	25.77	224.0	1.12	.29	1471.
60	5.53	32.64	60	25.77	224.0	1.35	.41	1471.
70	5.49	32.64	70	25.78	223.6	1.57	.56	1471.
80	5.41	32.65	79	25.79	222.1	1.80	.73	1471.
90	5.39	32.66	89	25.81	220.9	2.02	.92	1471.
100	5.12	32.86	99	25.99	203.8	2.23	1.13	1470.
110	4.64	33.11	109	26.24	179.6	2.42	1.33	1469.
120	4.60	33.27	119	26.37	167.3	2.59	1.54	1469.
130	4.82	33.48	129	26.51	154.0	2.75	1.74	1470.
140	4.86	33.58	139	26.59	147.2	2.90	1.95	1471.
150	4.88	33.67	149	26.66	140.3	3.05	2.16	1471.
160	4.89	33.74	159	26.71	135.6	3.19	2.38	1471.
170	4.77	33.80	169	26.77	129.9	3.32	2.60	1471.
180	4.75	33.81	179	26.78	128.9	3.45	2.83	1471.
190	4.67	33.82	189	26.80	127.5	3.58	3.07	1471.
200	4.63	33.84	199	26.82	125.6	3.70	3.33	1471.
210	4.56	33.85	208	26.84	124.2	3.83	3.59	1471.
220	4.44	33.85	218	26.85	123.1	3.95	3.86	1471.
230	4.34	33.85	228	26.86	122.1	4.08	4.14	1470.
240	4.32	33.86	238	26.87	121.2	4.20	4.43	1471.
250	4.28	33.87	248	26.88	120.1	4.32	4.73	1471.
260	4.22	33.88	258	26.90	118.8	4.44	5.04	1471.
270	4.16	33.89	268	26.91	117.5	4.56	5.36	1470.
280	4.12	33.89	278	26.91	117.2	4.67	5.69	1470.
290	4.11	33.92	288	26.94	114.9	4.79	6.03	1471.
300	4.09	33.93	298	26.95	114.1	4.90	6.37	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 68

DATE 21/ 3/79

POSITION 50- .0N, 145- .0W

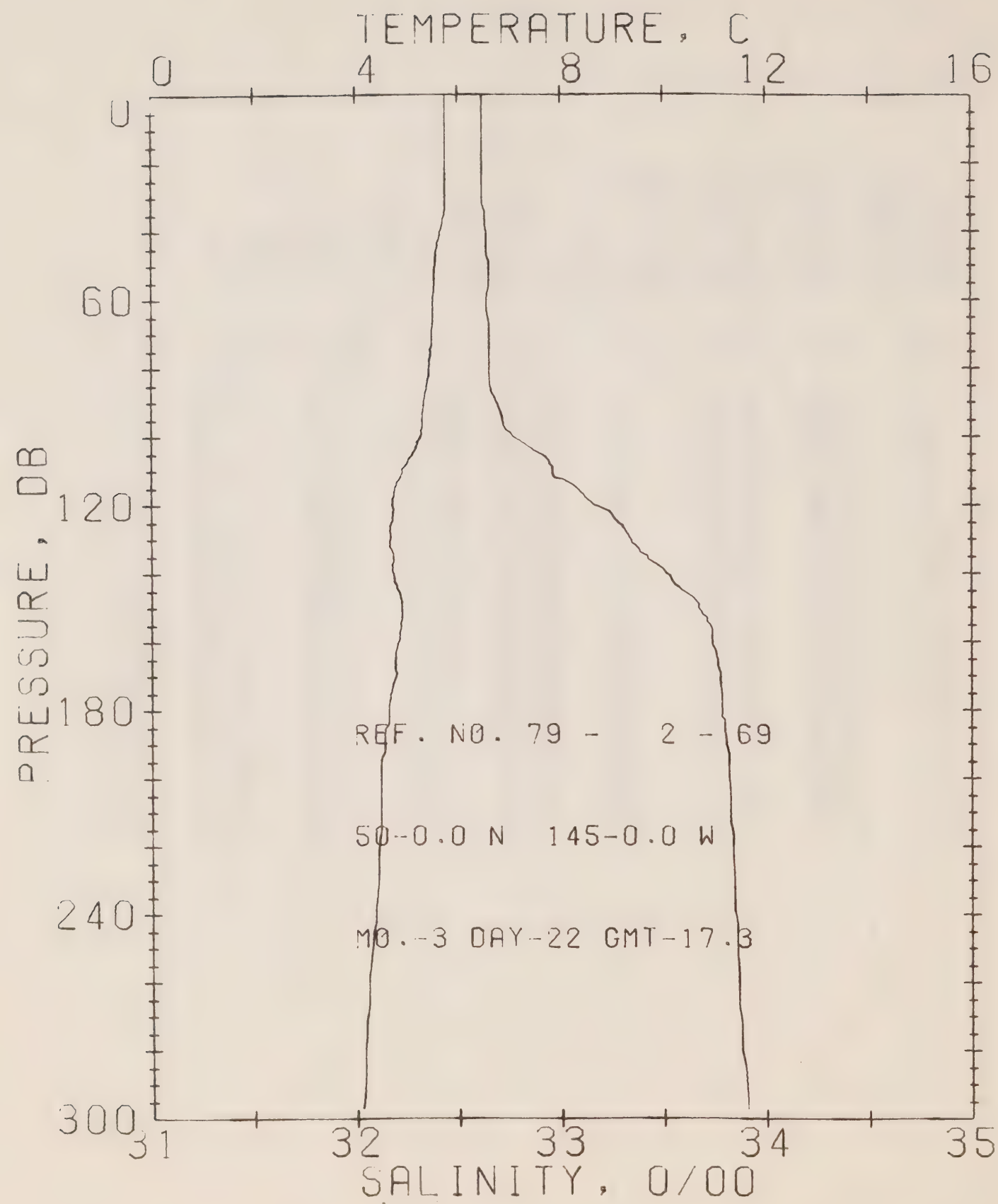
GMT 17.3

STATION P

RESULTS OF STP CAST 260 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.62	0	25.75	225.6	.00	.00	1470.
10	5.59	32.63	10	25.76	224.9	.23	.01	1470.
20	5.59	32.63	20	25.76	225.0	.45	.05	1471.
30	5.58	32.63	30	25.76	225.0	.68	.10	1471.
50	5.54	32.64	50	25.77	224.0	1.12	.29	1471.
75	5.46	32.64	75	25.78	222.9	1.68	.64	1471.
100	5.12	32.86	99	25.99	203.8	2.23	1.13	1470.
125	4.74	33.37	124	26.44	161.3	2.68	1.64	1470.
150	4.88	33.67	149	26.66	140.3	3.05	2.16	1471.
175	4.76	33.80	174	26.77	129.9	3.38	2.71	1471.
200	4.63	33.84	199	26.82	125.6	3.70	3.33	1471.
225	4.41	33.85	223	26.85	122.7	4.01	4.00	1471.
250	4.28	33.87	248	26.88	120.1	4.32	4.73	1471.
300	4.09	33.93	298	26.95	114.1	4.90	6.37	1471.
400	3.87	34.03	397	27.05	105.1	6.00	10.27	1472.
500	3.72	34.12	496	27.14	97.5	7.01	14.91	1473.
600	3.54	34.20	595	27.22	90.3	7.95	20.17	1474.
800	3.17	34.31	793	27.34	79.9	9.65	32.26	1476.
1000	2.86	34.40	990	27.44	71.4	11.15	45.97	1478.
1200	2.58	34.46	1188	27.52	64.4	12.50	61.06	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 69

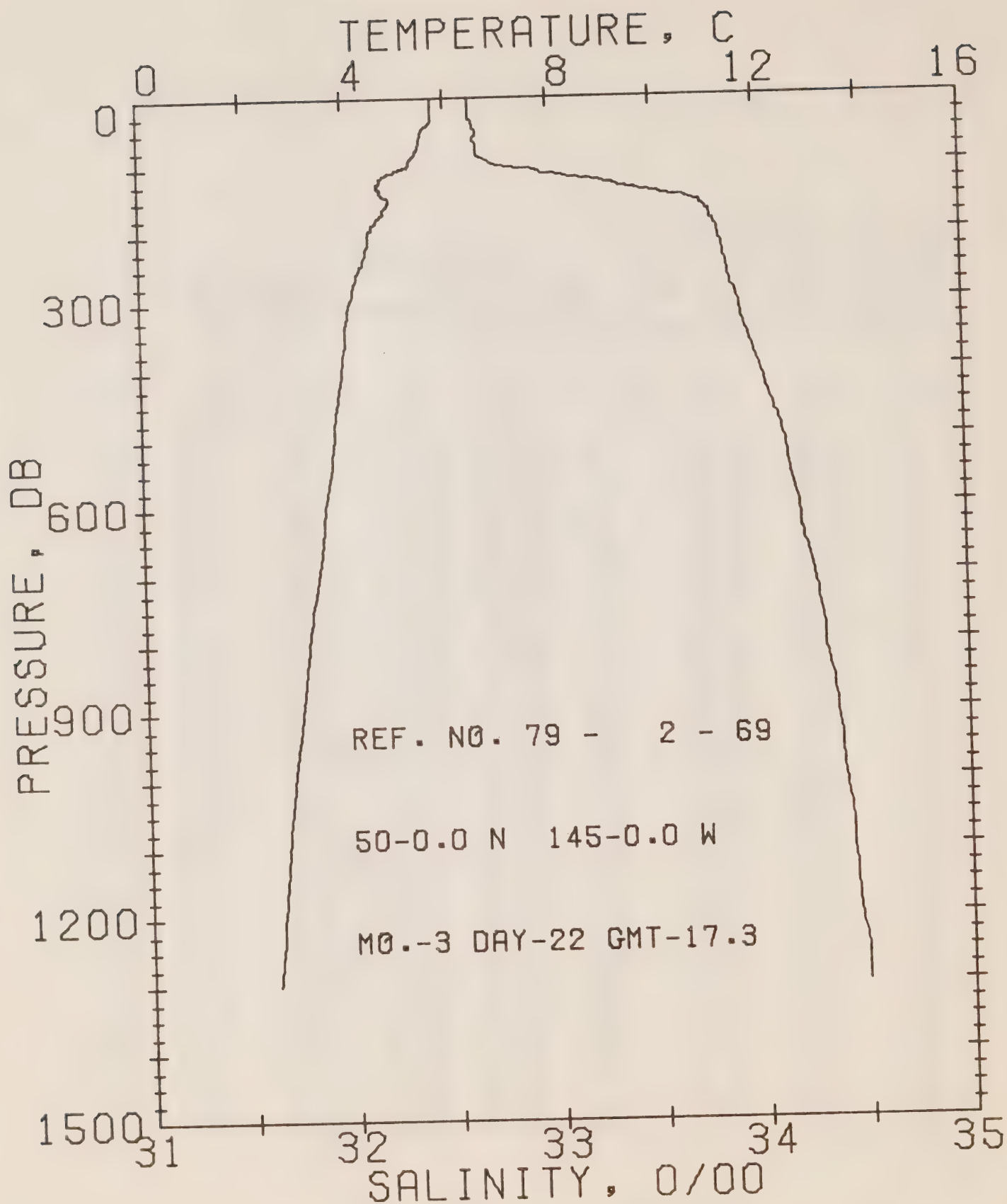
DATE 22/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 152 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.76	32.62	0	25.73	227.5	.00	.00	1471.
10	5.76	32.62	10	25.73	227.6	.23	.01	1471.
20	5.76	32.62	20	25.73	227.7	.46	.05	1471.
30	5.75	32.62	30	25.73	227.7	.68	.10	1471.
40	5.68	32.64	40	25.75	225.5	.91	.19	1471.
50	5.56	32.65	50	25.78	223.4	1.13	.29	1471.
60	5.53	32.64	60	25.77	224.0	1.36	.41	1471.
70	5.50	32.65	70	25.78	223.0	1.58	.56	1471.
80	5.45	32.65	79	25.79	222.5	1.80	.73	1471.
90	5.35	32.68	89	25.83	219.0	2.03	.92	1471.
100	5.27	32.77	99	25.90	211.8	2.24	1.13	1471.
110	4.92	32.96	109	26.09	193.8	2.44	1.35	1470.
120	4.73	33.10	119	26.27	176.9	2.63	1.57	1469.
130	4.69	33.34	129	26.42	163.1	2.80	1.78	1470.
140	4.72	33.51	139	26.55	150.7	2.95	2.00	1470.
150	4.90	33.67	149	26.66	140.8	3.10	2.21	1471.
160	4.86	33.74	159	26.72	135.2	3.24	2.43	1471.
170	4.79	33.78	169	26.76	131.6	3.37	2.65	1471.
180	4.64	33.79	179	26.78	129.3	3.50	2.88	1471.
190	4.55	33.81	189	26.81	126.9	3.63	3.12	1471.
200	4.48	33.82	199	26.82	125.5	3.75	3.37	1471.
210	4.49	33.83	208	26.83	125.0	3.88	3.64	1471.
220	4.45	33.84	218	26.84	123.9	4.00	3.91	1471.
230	4.42	33.85	228	26.85	122.9	4.13	4.19	1471.
240	4.38	33.85	238	26.86	122.3	4.25	4.49	1471.
250	4.30	33.86	248	26.87	121.1	4.37	4.79	1471.
260	4.25	33.87	258	26.89	119.8	4.49	5.10	1471.
270	4.21	33.88	268	26.89	119.1	4.61	5.43	1471.
280	4.17	33.88	278	26.90	118.5	4.73	5.76	1471.
290	4.14	33.90	288	26.92	116.5	4.85	6.10	1471.
300	4.10	33.91	298	26.94	115.3	4.96	6.45	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 69

DATE 22/ 3/79

POSITION 50- .0N, 145- .0W

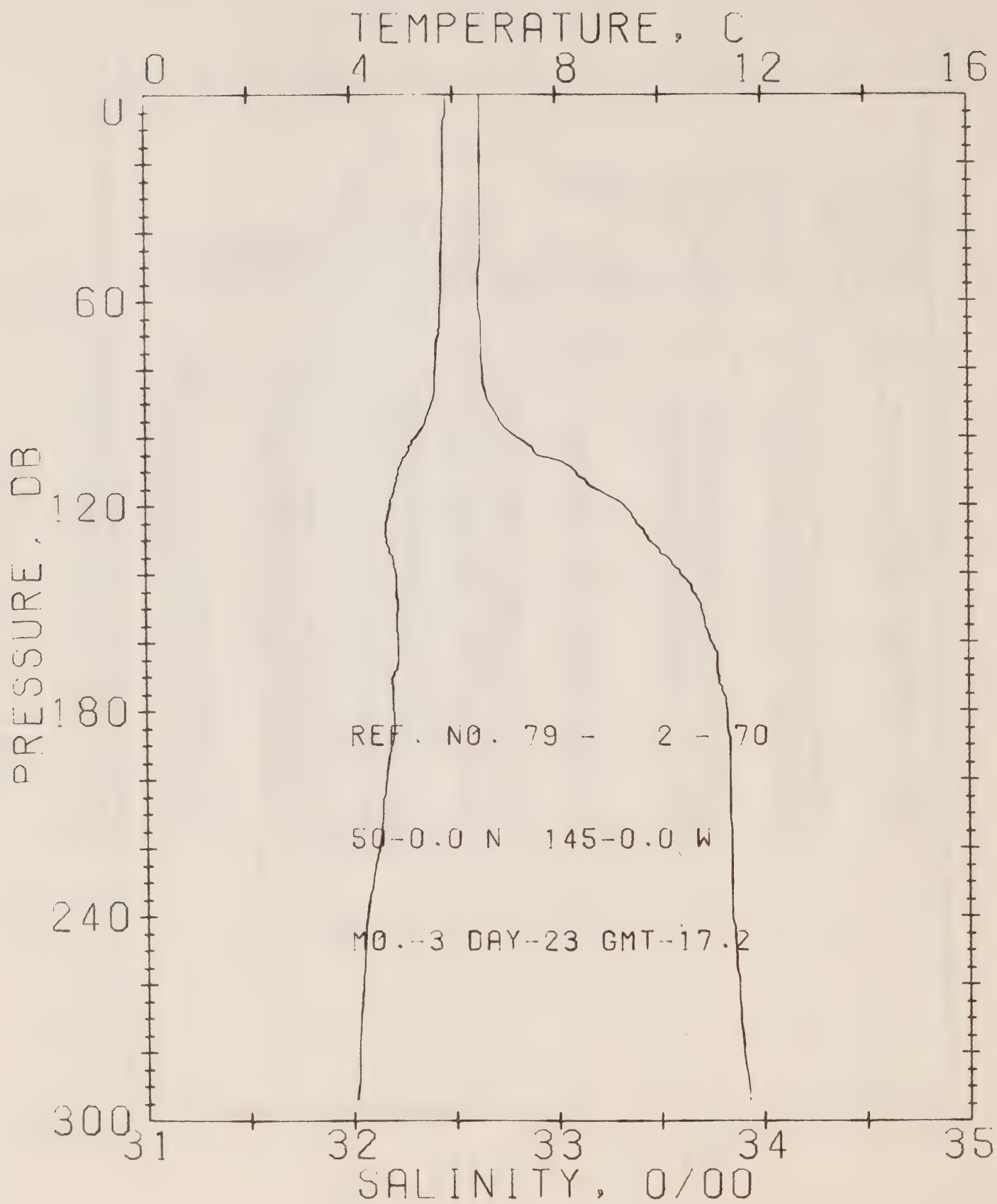
GMT 17.3

STATION P

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.76	32.62	0	25.73	227.5	.00	.00	1471.
10	5.76	32.62	10	25.73	227.6	.23	.01	1471.
20	5.76	32.62	20	25.73	227.7	.46	.05	1471.
30	5.75	32.62	30	25.73	227.7	.68	.10	1471.
50	5.56	32.65	50	25.78	223.4	1.13	.29	1471.
75	5.47	32.65	75	25.79	222.7	1.69	.64	1471.
100	5.27	32.77	99	25.90	211.8	2.24	1.13	1471.
125	4.71	33.28	124	26.37	167.7	2.71	1.67	1470.
150	4.90	33.67	149	26.66	140.8	3.10	2.21	1471.
175	4.69	33.79	174	26.77	129.8	3.43	2.77	1471.
200	4.48	33.82	199	26.82	125.5	3.75	3.37	1471.
225	4.43	33.84	223	26.84	123.6	4.06	4.05	1471.
250	4.30	33.86	248	26.87	121.1	4.37	4.79	1471.
300	4.10	33.91	298	26.94	115.3	4.96	6.45	1471.
400	3.93	34.01	397	27.03	107.0	6.08	10.41	1472.
500	3.75	34.12	496	27.14	97.8	7.10	15.09	1473.
600	3.56	34.19	595	27.21	91.4	8.05	20.41	1474.
800	3.17	34.31	793	27.34	79.8	9.76	32.58	1476.
1000	2.84	34.40	990	27.44	71.1	11.26	46.34	1478.
1200	2.58	34.46	1188	27.51	64.9	12.62	61.49	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 70

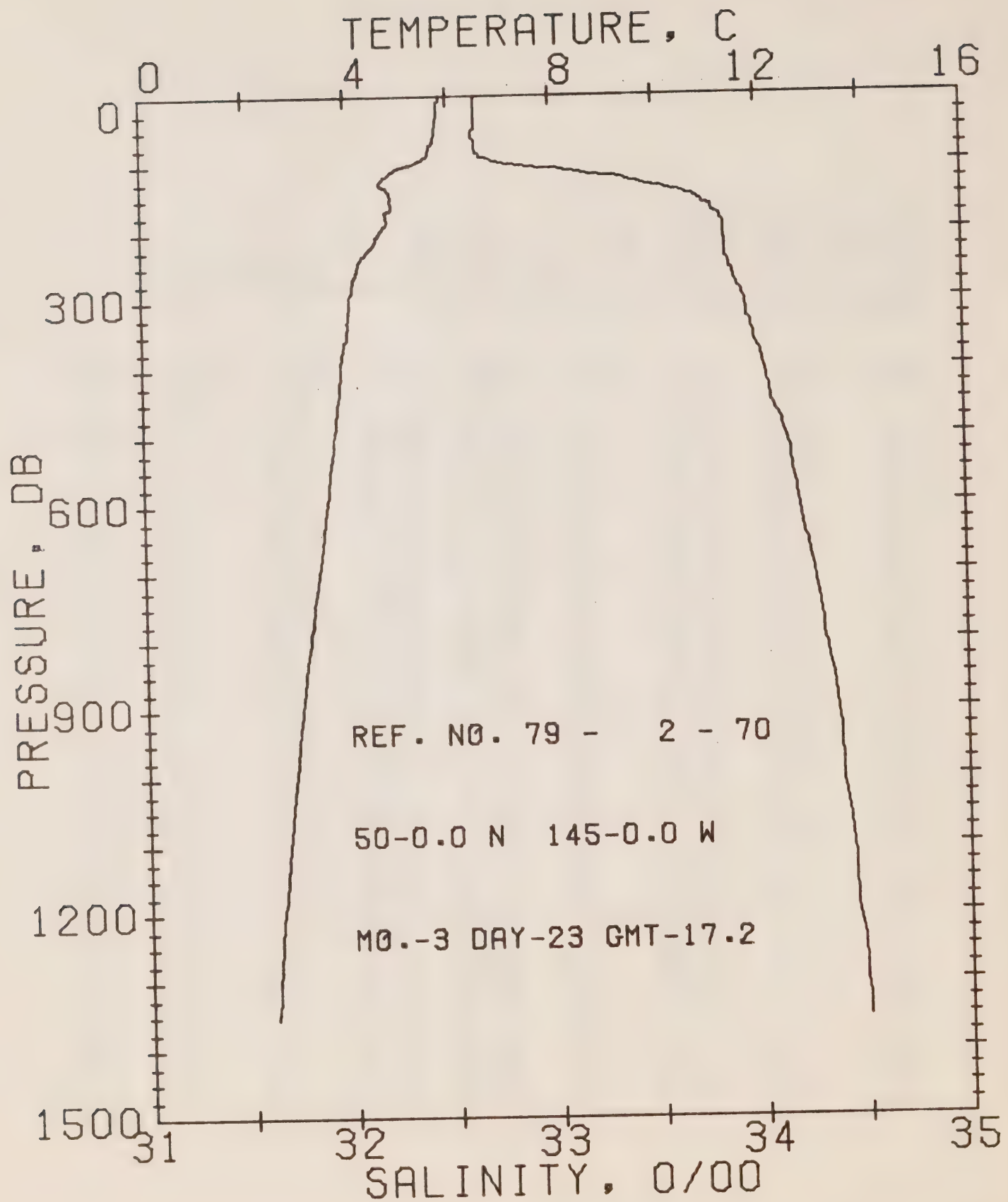
DATE 23/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.86	32.63	0	25.72	227.9	.00	.00	1471.
10	5.82	32.63	10	25.73	227.5	.23	.01	1471.
20	5.82	32.63	20	25.73	227.6	.46	.05	1472.
30	5.80	32.63	30	25.73	227.6	.68	.10	1472.
40	5.78	32.63	40	25.73	227.4	.91	.19	1472.
50	5.76	32.62	50	25.73	227.7	1.14	.29	1472.
60	5.74	32.62	60	25.73	227.9	1.37	.42	1472.
70	5.70	32.63	70	25.74	226.8	1.59	.57	1472.
80	5.63	32.64	79	25.76	225.6	1.82	.74	1472.
90	5.57	32.67	89	25.79	222.5	2.04	.94	1472.
100	5.24	32.81	99	25.94	208.4	2.26	1.15	1471.
110	4.91	33.09	109	26.20	184.0	2.46	1.36	1470.
120	4.75	33.33	119	26.40	164.4	2.63	1.56	1470.
130	4.69	33.45	129	26.51	154.8	2.79	1.76	1470.
140	4.87	33.60	139	26.60	145.6	2.94	1.97	1471.
150	4.92	33.70	149	26.68	138.8	3.08	2.18	1471.
160	4.90	33.75	159	26.72	135.0	3.22	2.40	1472.
170	4.80	33.79	169	26.76	130.9	3.35	2.62	1471.
180	4.81	33.83	179	26.79	128.2	3.48	2.85	1472.
190	4.77	33.84	189	26.81	127.1	3.61	3.09	1472.
200	4.66	33.84	199	26.82	126.0	3.74	3.34	1471.
210	4.58	33.84	208	26.83	125.2	3.86	3.60	1471.
220	4.51	33.85	218	26.84	123.8	3.99	3.88	1471.
230	4.38	33.85	228	26.86	122.4	4.11	4.16	1471.
240	4.28	33.85	238	26.87	121.5	4.23	4.45	1470.
250	4.22	33.87	248	26.89	119.8	4.35	4.75	1470.
260	4.19	33.88	258	26.90	118.5	4.47	5.06	1470.
270	4.13	33.89	268	26.91	117.2	4.59	5.38	1470.
280	4.10	33.90	278	26.92	116.2	4.71	5.71	1470.
290	4.09	33.93	288	26.95	114.2	4.82	6.04	1471.
300	4.05	33.94	298	26.96	113.2	4.94	6.38	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 70

DATE 23/ 3/79

POSITION 50- .0N, 145- .0W

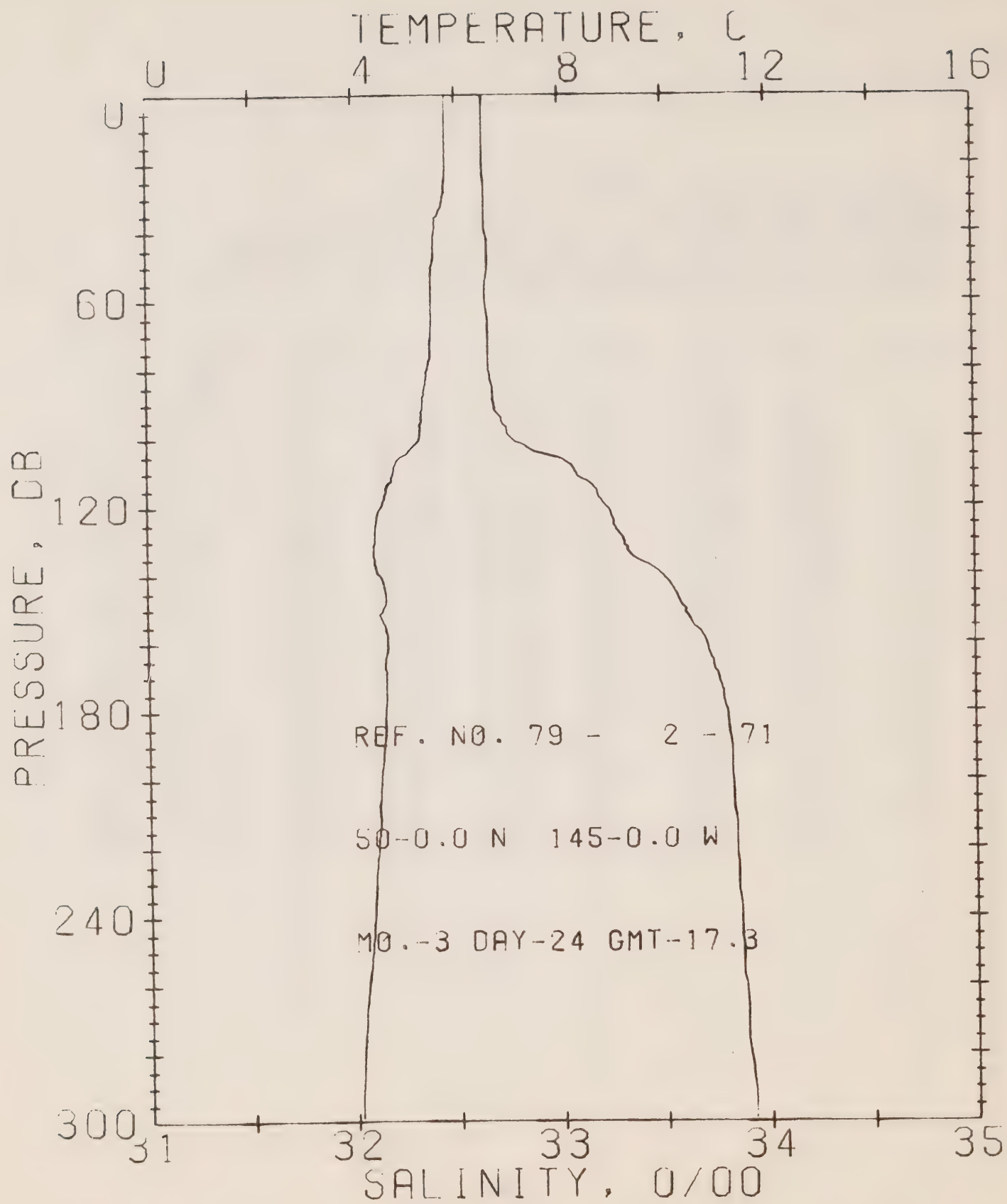
GMT 17.2

STATION P

RESULTS OF STP CAST 246 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.86	32.63	0	25.72	227.9	.00	.00	1471.
10	5.82	32.63	10	25.73	227.5	.23	.01	1471.
20	5.82	32.63	20	25.73	227.6	.46	.05	1472.
30	5.80	32.63	30	25.73	227.6	.68	.10	1472.
50	5.76	32.62	50	25.73	227.7	1.14	.29	1472.
75	5.66	32.63	75	25.75	226.3	1.71	.65	1472.
100	5.24	32.81	99	25.94	208.4	2.26	1.15	1471.
125	4.67	33.39	124	26.46	159.0	2.71	1.66	1470.
150	4.92	33.70	149	26.68	138.8	3.08	2.18	1471.
175	4.81	33.81	174	26.78	129.6	3.42	2.73	1471.
200	4.66	33.84	199	26.82	126.0	3.74	3.34	1471.
225	4.43	33.85	223	26.85	123.0	4.05	4.02	1471.
250	4.22	33.87	248	26.89	119.8	4.35	4.75	1470.
300	4.05	33.94	298	26.96	113.2	4.94	6.38	1471.
400	3.87	34.03	397	27.05	105.5	6.03	10.29	1472.
500	3.73	34.12	496	27.14	97.4	7.05	14.95	1473.
600	3.55	34.19	595	27.21	91.6	7.99	20.22	1474.
800	3.19	34.31	793	27.34	79.9	9.70	32.38	1476.
1000	2.87	34.39	990	27.43	71.9	11.20	46.10	1478.
1200	2.59	34.45	1188	27.51	65.2	12.56	61.37	1480.



OFFSHORE OCEANOGRAPHY GROUP

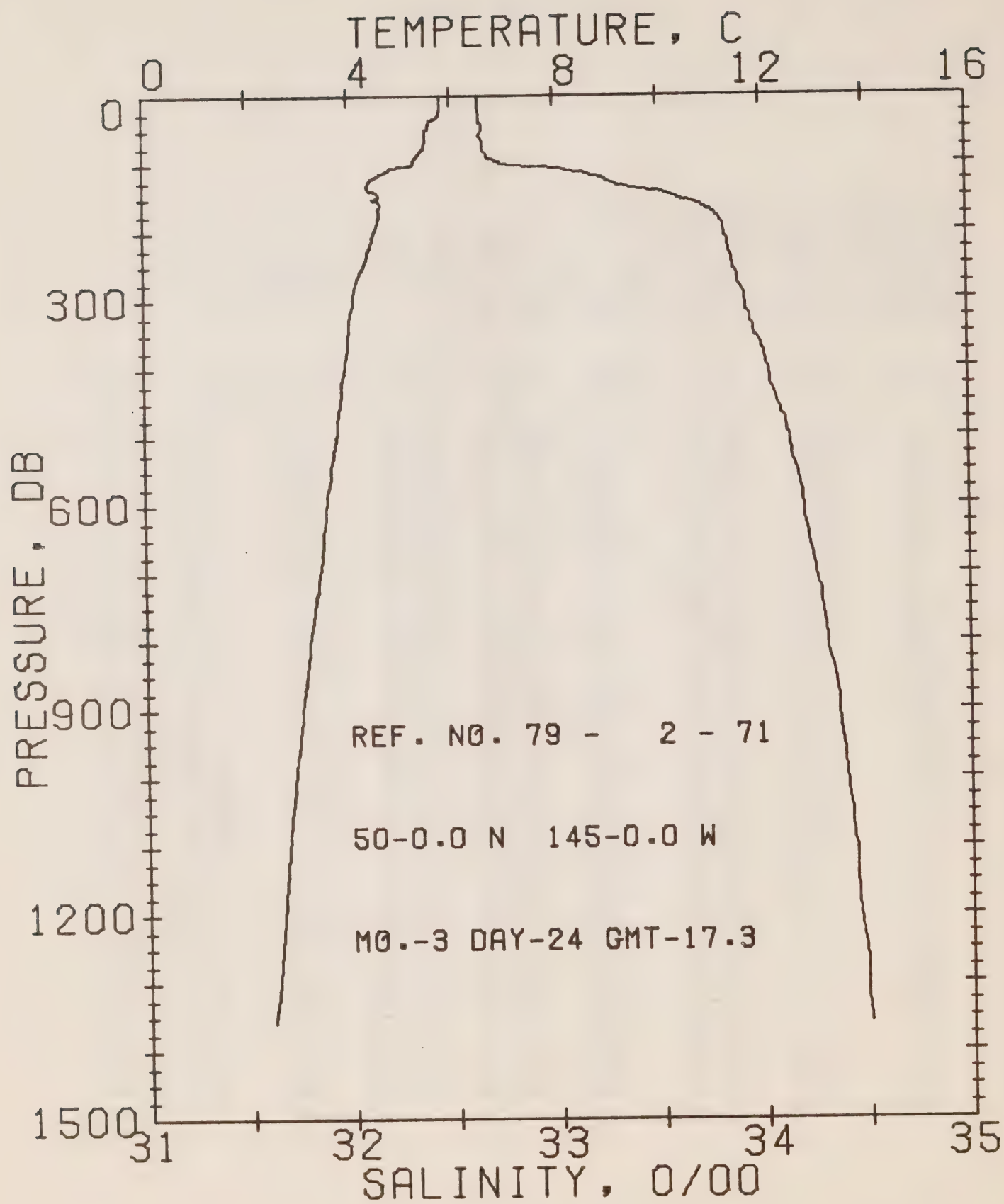
REFERENCE NO. 79- 2- 71 DATE 24/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.80	32.63	10	25.73	227.3	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.77	32.64	30	25.74	226.4	.68	.10	1472.
40	5.59	32.64	40	25.77	224.3	.91	.18	1471.
50	5.54	32.65	50	25.78	223.3	1.13	.29	1471.
60	5.53	32.64	60	25.77	223.9	1.35	.41	1471.
70	5.50	32.65	70	25.78	223.0	1.58	.56	1471.
80	5.45	32.65	79	25.79	222.5	1.80	.73	1471.
90	5.33	32.67	89	25.82	219.4	2.02	.92	1471.
100	5.28	32.76	99	25.89	212.6	2.24	1.13	1471.
110	4.75	33.07	109	26.20	183.8	2.43	1.34	1469.
120	4.54	33.22	119	26.34	170.4	2.61	1.55	1469.
130	4.39	33.30	129	26.42	162.5	2.78	1.76	1468.
140	4.46	33.49	139	26.56	149.5	2.93	1.98	1469.
150	4.57	33.60	149	26.64	142.5	3.08	2.19	1470.
160	4.63	33.70	159	26.71	135.7	3.22	2.41	1470.
170	4.61	33.76	169	26.76	131.4	3.35	2.64	1470.
180	4.59	33.80	179	26.79	128.0	3.48	2.87	1471.
190	4.55	33.82	189	26.81	126.2	3.61	3.11	1471.
200	4.50	33.82	199	26.82	125.5	3.74	3.36	1471.
210	4.46	33.84	208	26.83	124.3	3.86	3.62	1471.
220	4.43	33.84	218	26.84	123.6	3.99	3.89	1471.
230	4.38	33.85	228	26.86	122.4	4.11	4.17	1471.
240	4.34	33.86	238	26.87	121.4	4.23	4.47	1471.
250	4.29	33.87	248	26.88	120.3	4.35	4.77	1471.
260	4.21	33.88	258	26.90	118.7	4.47	5.08	1470.
270	4.16	33.89	268	26.91	117.5	4.59	5.40	1470.
280	4.12	33.90	278	26.92	116.5	4.71	5.73	1470.
290	4.10	33.92	288	26.94	115.1	4.82	6.06	1471.
300	4.08	33.92	298	26.94	114.7	4.94	6.41	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 71

DATE 24/ 3/79

POSITION 50- .0N, 145- .0W

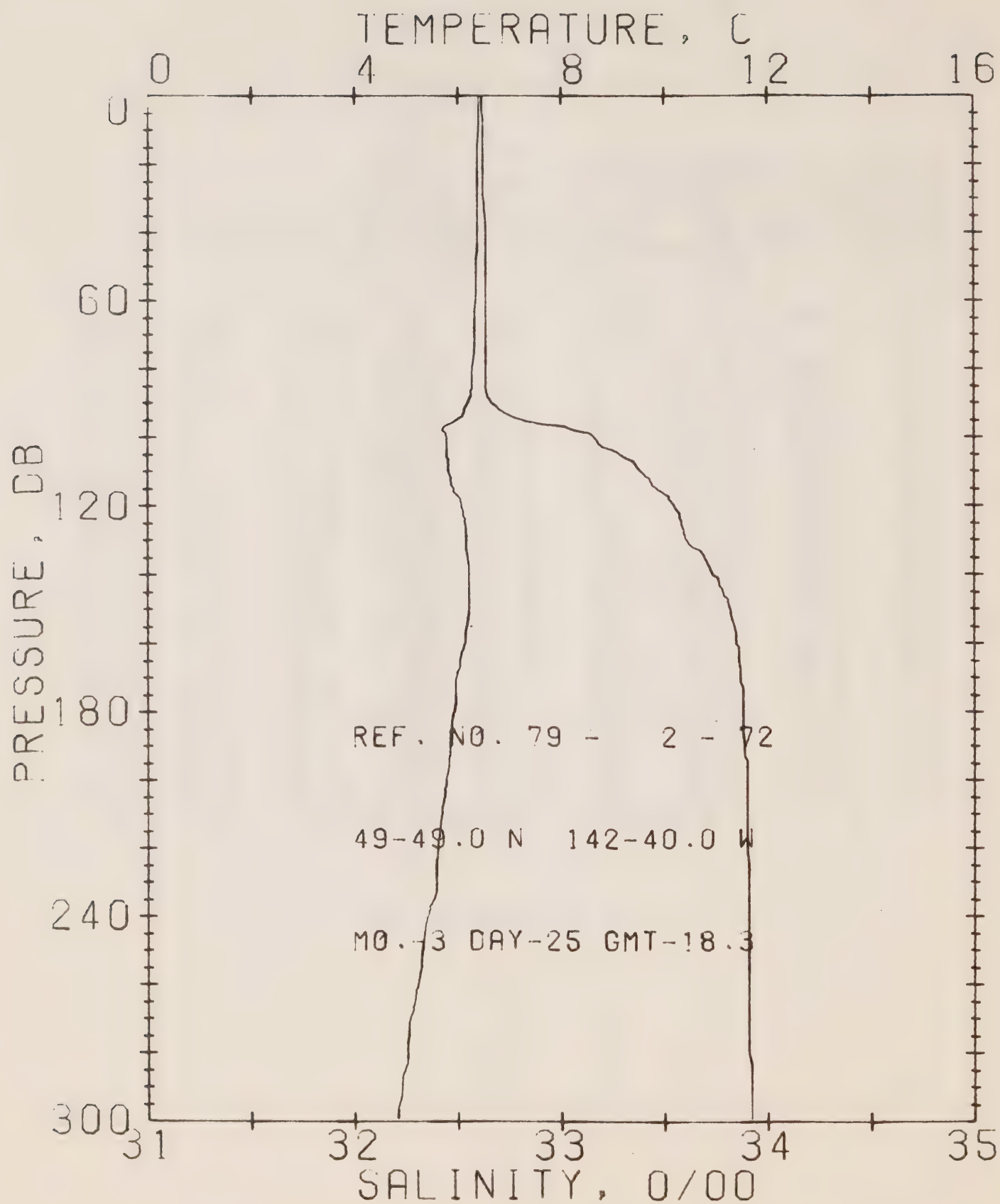
GMT 17.3

STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.80	32.63	10	25.73	227.3	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.77	32.64	30	25.74	226.4	.68	.10	1472.
50	5.54	32.65	50	25.78	223.3	1.13	.29	1471.
75	5.49	32.65	75	25.78	222.9	1.69	.64	1471.
100	5.28	32.76	99	25.89	212.6	2.24	1.13	1471.
125	4.43	33.25	124	26.37	167.0	2.69	1.65	1468.
150	4.57	33.60	149	26.64	142.5	3.08	2.19	1470.
175	4.61	33.78	174	26.78	129.7	3.42	2.75	1471.
200	4.50	33.82	199	26.82	125.5	3.74	3.36	1471.
225	4.39	33.85	223	26.85	122.6	4.05	4.03	1471.
250	4.29	33.87	248	26.88	120.3	4.35	4.77	1471.
300	4.08	33.92	298	26.94	114.7	4.94	6.41	1471.
400	3.90	34.03	397	27.05	105.7	6.04	10.33	1472.
500	3.74	34.13	496	27.14	97.1	7.05	14.98	1473.
600	3.53	34.20	595	27.22	90.8	7.99	20.24	1474.
800	3.18	34.31	793	27.34	80.0	9.70	32.40	1476.
1000	2.87	34.40	990	27.44	71.4	11.21	46.16	1478.
1200	2.61	34.46	1188	27.51	65.2	12.57	61.39	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 72

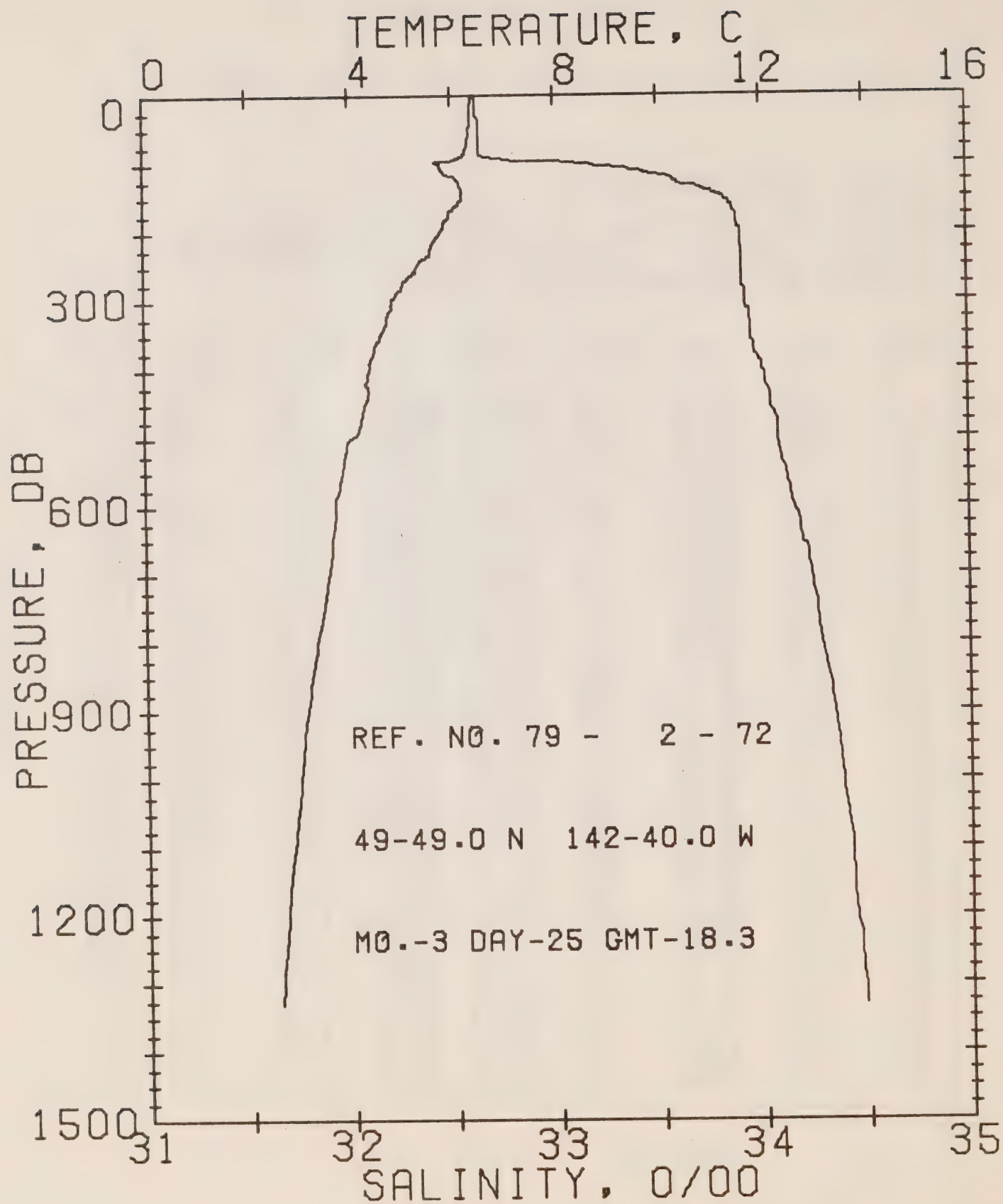
DATE 25/ 3/79

POSITION 49-49.0N, 142-40.0W GMT 18.3 STATION 12

RESULTS OF STP CAST 160 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.61	0	25.64	235.6	.00	.00	1473.
10	6.39	32.62	10	25.65	235.0	.24	.01	1474.
20	6.38	32.62	20	25.65	235.0	.47	.05	1474.
30	6.38	32.62	30	25.65	235.0	.71	.11	1474.
40	6.37	32.63	40	25.66	234.4	.94	.19	1474.
50	6.36	32.63	50	25.66	234.3	1.17	.30	1474.
60	6.34	32.63	60	25.66	234.2	1.41	.43	1474.
70	6.33	32.63	70	25.67	234.2	1.64	.59	1474.
80	6.28	32.63	79	25.67	233.7	1.88	.76	1474.
90	6.19	32.66	89	25.71	230.5	2.11	.97	1474.
100	5.78	33.16	99	26.15	188.4	2.32	1.17	1473.
110	5.82	33.39	109	26.33	171.8	2.50	1.36	1474.
120	6.06	33.54	119	26.42	163.6	2.67	1.56	1475.
130	6.15	33.61	129	26.46	159.6	2.83	1.77	1476.
140	6.22	33.73	139	26.54	151.7	2.99	1.98	1477.
150	6.22	33.82	149	26.62	145.1	3.13	2.20	1477.
160	6.13	33.85	159	26.65	141.9	3.28	2.42	1477.
170	5.96	33.87	169	26.69	138.4	3.42	2.66	1476.
180	5.91	33.88	179	26.70	137.2	3.55	2.90	1476.
190	5.85	33.89	189	26.72	135.9	3.69	3.16	1476.
200	5.77	33.90	199	26.74	134.3	3.83	3.43	1476.
210	5.68	33.90	209	26.75	133.3	3.96	3.71	1476.
220	5.60	33.90	218	26.76	132.4	4.09	4.00	1476.
230	5.57	33.91	228	26.77	131.5	4.22	4.30	1476.
240	5.41	33.91	238	26.79	129.7	4.35	4.62	1475.
250	5.31	33.91	248	26.80	128.6	4.48	4.94	1475.
260	5.21	33.91	258	26.81	127.5	4.61	5.27	1475.
270	5.08	33.91	268	26.83	126.2	4.74	5.61	1474.
280	5.02	33.91	278	26.83	125.6	4.86	5.96	1474.
290	4.90	33.92	288	26.85	123.6	4.99	6.33	1474.
300	4.83	33.92	298	26.86	122.8	5.11	6.70	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 72

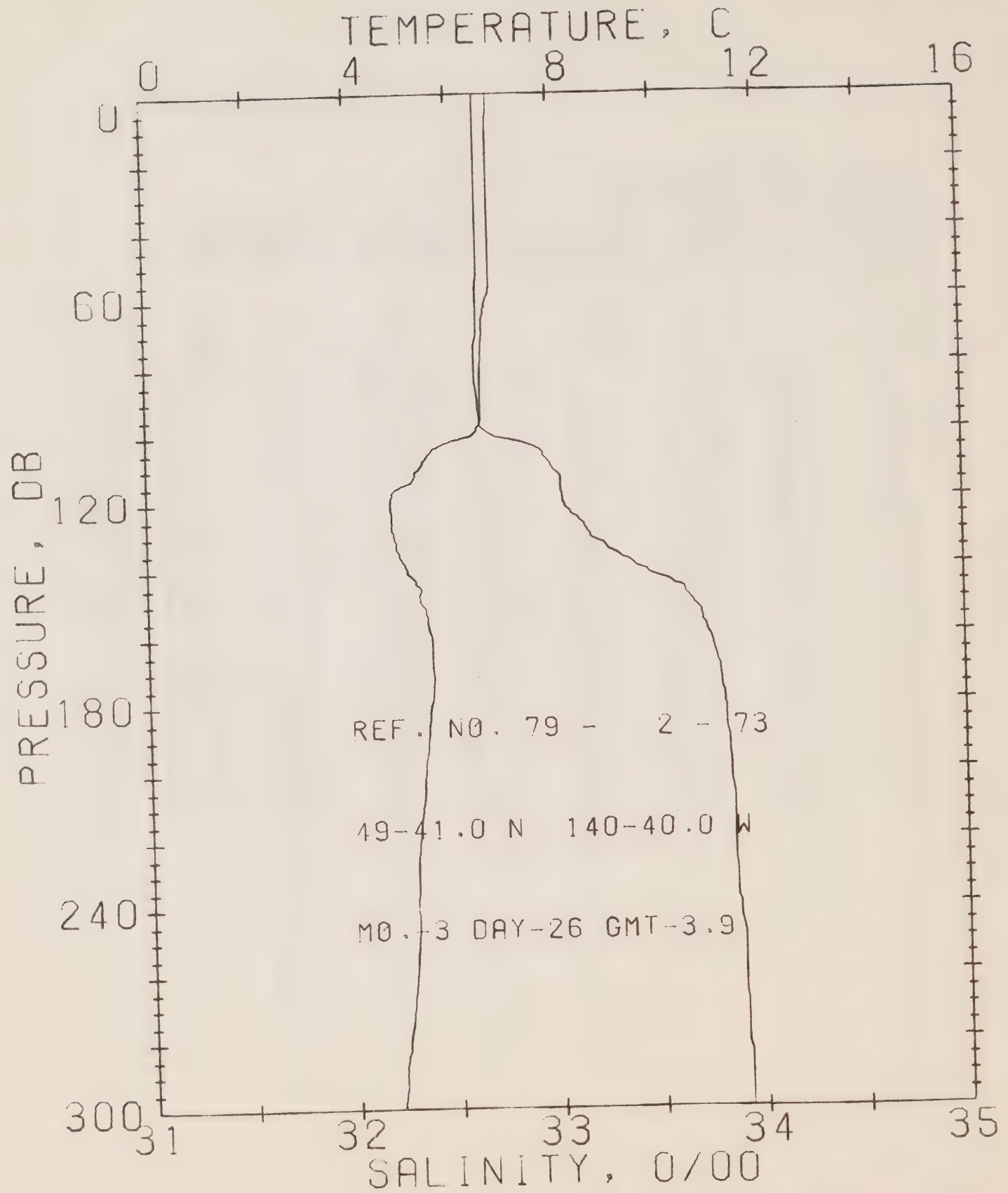
DATE 25/ 3/79

POSITION 49-49.0N, 142-40.0W GMT 18.3 STATION 12

RESULTS OF STP CAST 269 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.61	0	25.64	235.6	.00	.00	1473.
10	6.39	32.62	10	25.65	235.0	.24	.01	1474.
20	6.38	32.62	20	25.65	235.0	.47	.05	1474.
30	6.38	32.62	30	25.65	235.0	.71	.11	1474.
50	6.36	32.63	50	25.66	234.3	1.17	.30	1474.
75	6.30	32.63	75	25.67	234.0	1.76	.67	1474.
100	5.78	33.16	99	26.15	188.4	2.32	1.17	1473.
125	6.14	33.58	124	26.44	161.7	2.75	1.66	1476.
150	6.22	33.82	149	26.62	145.1	3.13	2.20	1477.
175	5.94	33.88	174	26.70	137.5	3.49	2.78	1476.
200	5.77	33.90	199	26.74	134.3	3.83	3.43	1476.
225	5.57	33.91	223	26.77	131.5	4.16	4.15	1476.
250	5.31	33.91	248	26.80	128.6	4.48	4.94	1475.
300	4.83	33.92	298	26.86	122.8	5.11	6.70	1474.
400	4.38	34.00	397	26.97	112.9	6.29	10.90	1474.
500	3.99	34.07	496	27.07	104.2	7.38	15.89	1474.
600	3.70	34.15	595	27.16	96.2	8.38	21.49	1474.
800	3.32	34.28	793	27.31	83.5	10.17	34.19	1476.
1000	2.97	34.38	990	27.42	73.7	11.72	48.42	1478.
1200	2.69	34.44	1188	27.49	67.5	13.13	64.15	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 73

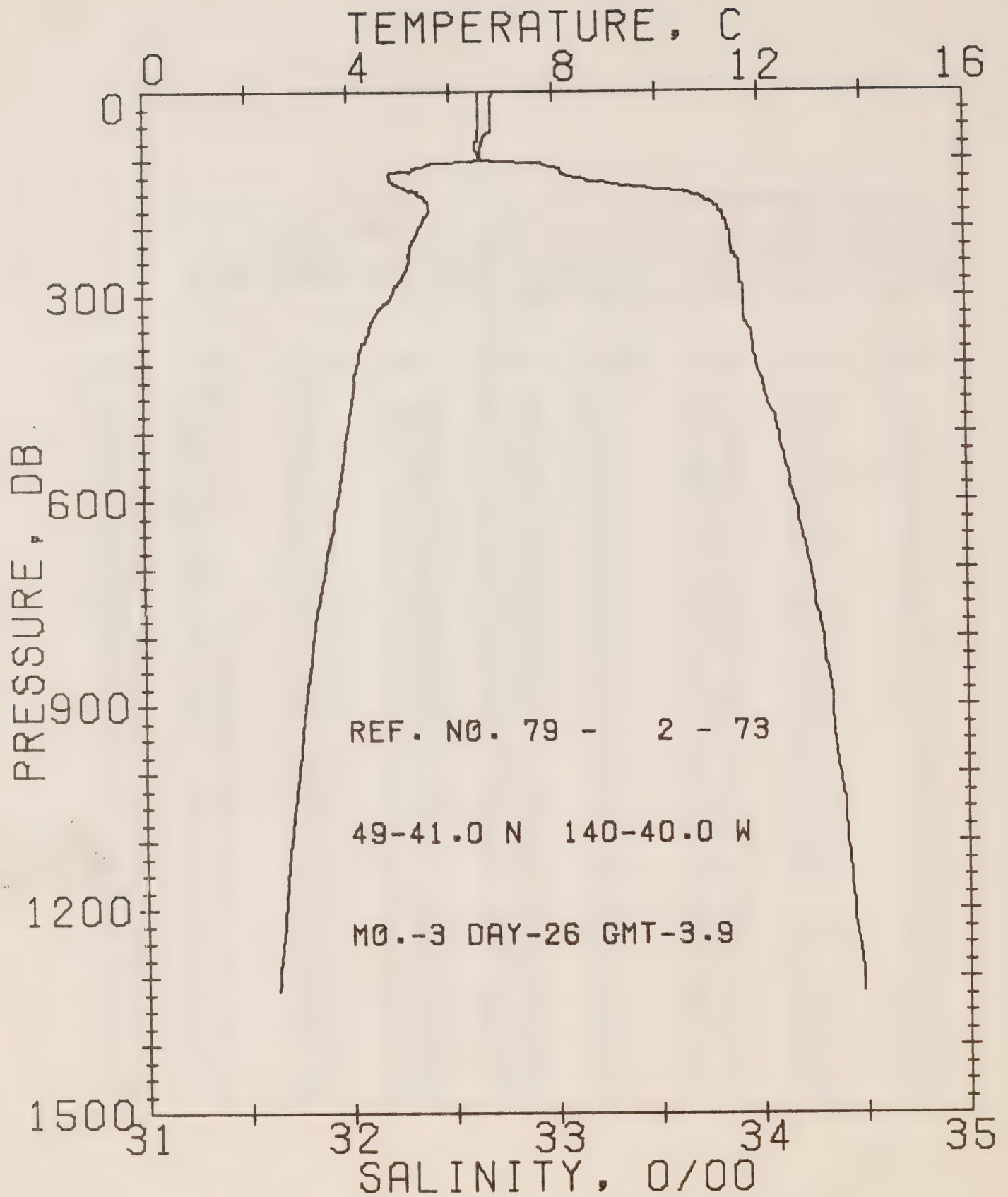
DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W GMT 3.9 STATION 11

RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.83	32.64	0	25.61	238.8	.00	.00	1475.
10	6.81	32.64	10	25.61	238.7	.24	.01	1475.
20	6.80	32.64	20	25.61	238.7	.48	.05	1475.
30	6.80	32.64	30	25.61	238.8	.72	.11	1476.
40	6.81	32.64	40	25.61	239.1	.96	.19	1476.
50	6.80	32.64	50	25.61	239.1	1.19	.30	1476.
60	6.74	32.63	60	25.61	239.2	1.43	.44	1476.
70	6.64	32.63	70	25.63	238.1	1.67	.60	1476.
80	6.61	32.62	79	25.62	238.5	1.91	.78	1476.
90	6.59	32.63	89	25.63	237.7	2.15	.99	1476.
100	6.47	32.68	99	25.69	232.6	2.39	1.21	1476.
110	5.41	32.99	109	26.06	197.0	2.59	1.44	1472.
120	4.81	33.04	119	26.17	186.7	2.79	1.66	1470.
130	4.85	33.17	129	26.27	177.5	2.97	1.89	1470.
140	5.10	33.40	139	26.42	163.1	3.14	2.13	1472.
150	5.36	33.67	149	26.60	146.0	3.29	2.35	1473.
160	5.54	33.75	159	26.64	142.2	3.43	2.58	1474.
170	5.58	33.80	169	26.68	139.1	3.58	2.82	1475.
180	5.55	33.82	179	26.70	137.3	3.71	3.06	1475.
190	5.46	33.84	189	26.73	134.9	3.85	3.32	1474.
200	5.38	33.85	199	26.74	133.4	3.98	3.59	1474.
210	5.33	33.86	209	26.76	132.1	4.12	3.86	1474.
220	5.24	33.86	218	26.77	131.2	4.25	4.15	1474.
230	5.20	33.87	228	26.78	130.1	4.38	4.45	1474.
240	5.18	33.88	238	26.79	129.2	4.51	4.76	1474.
250	5.18	33.90	248	26.81	127.8	4.64	5.09	1474.
260	5.13	33.90	258	26.81	127.3	4.76	5.42	1474.
270	5.07	33.91	268	26.83	126.0	4.89	5.76	1474.
280	4.97	33.91	278	26.84	125.0	5.02	6.11	1474.
290	4.89	33.92	288	26.86	123.4	5.14	6.47	1474.
300	4.84	33.92	298	26.86	123.0	5.26	6.84	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 73

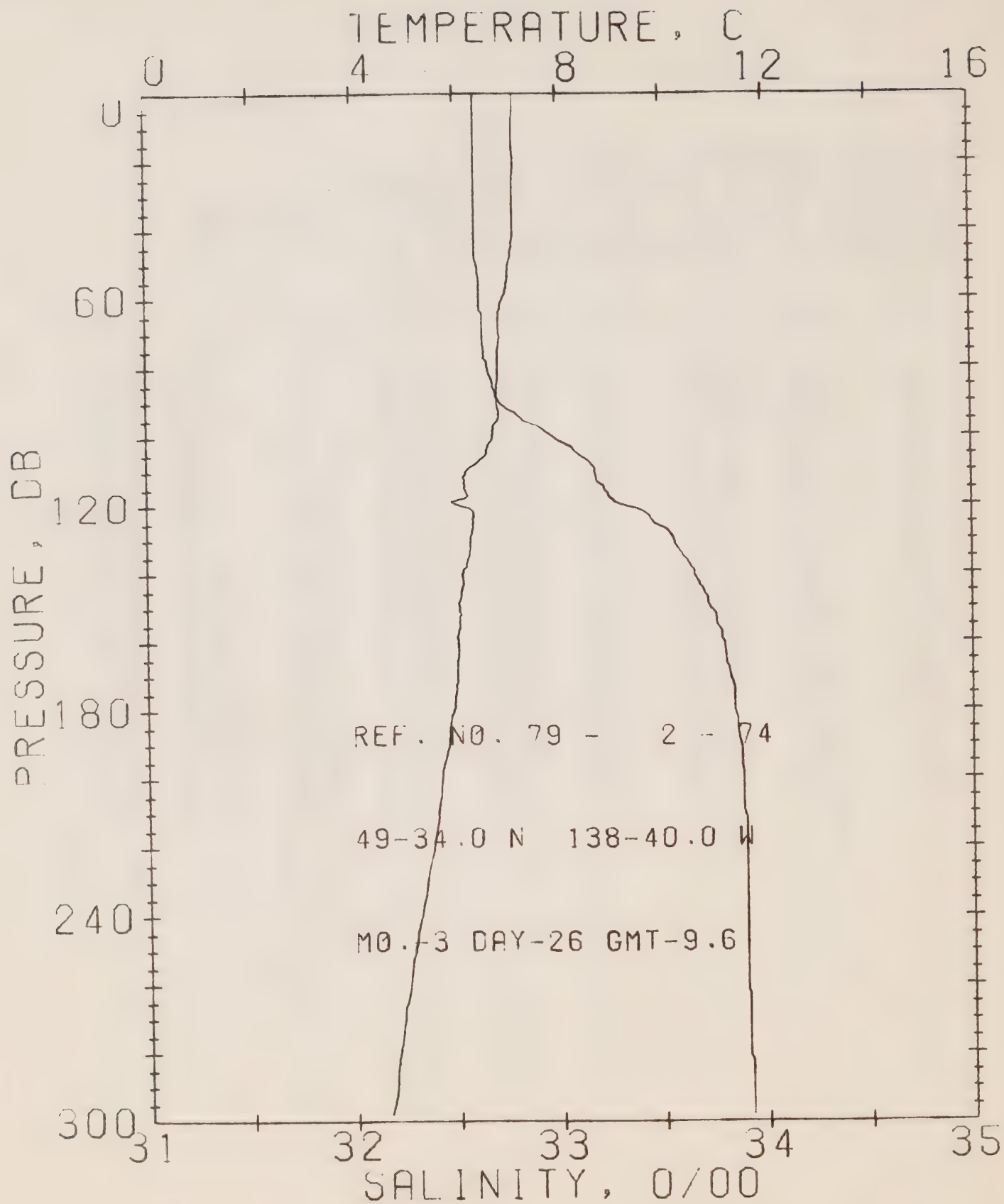
DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W GMT 3.9 STATION 11

RESULTS OF STP CAST 264 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.83	32.64	0	25.61	238.8	.00	.00	1475.
10	6.81	32.64	10	25.61	238.7	.24	.01	1475.
20	6.80	32.64	20	25.61	238.7	.48	.05	1475.
30	6.80	32.64	30	25.61	238.8	.72	.11	1476.
50	6.80	32.64	50	25.61	239.1	1.19	.30	1476.
75	6.62	32.62	75	25.62	238.6	1.79	.68	1476.
100	6.47	32.68	99	25.69	232.6	2.39	1.21	1476.
125	4.82	33.11	124	26.22	181.6	2.88	1.78	1470.
150	5.36	33.67	149	26.60	146.0	3.29	2.35	1473.
175	5.57	33.81	174	26.69	138.3	3.64	2.94	1475.
200	5.38	33.85	199	26.74	133.4	3.98	3.59	1474.
225	5.22	33.86	223	26.77	131.0	4.31	4.30	1474.
250	5.18	33.90	248	26.81	127.8	4.64	5.09	1474.
300	4.84	33.92	298	26.86	123.0	5.26	6.84	1474.
400	4.16	33.98	397	26.98	111.9	6.43	10.99	1473.
500	3.96	34.09	496	27.09	102.7	7.50	15.91	1474.
600	3.77	34.16	595	27.17	95.8	8.50	21.47	1475.
800	3.27	34.30	793	27.32	81.8	10.27	34.07	1476.
1000	2.96	34.38	990	27.41	73.8	11.82	48.30	1478.
1200	2.68	34.44	1188	27.49	67.3	13.23	64.01	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 74

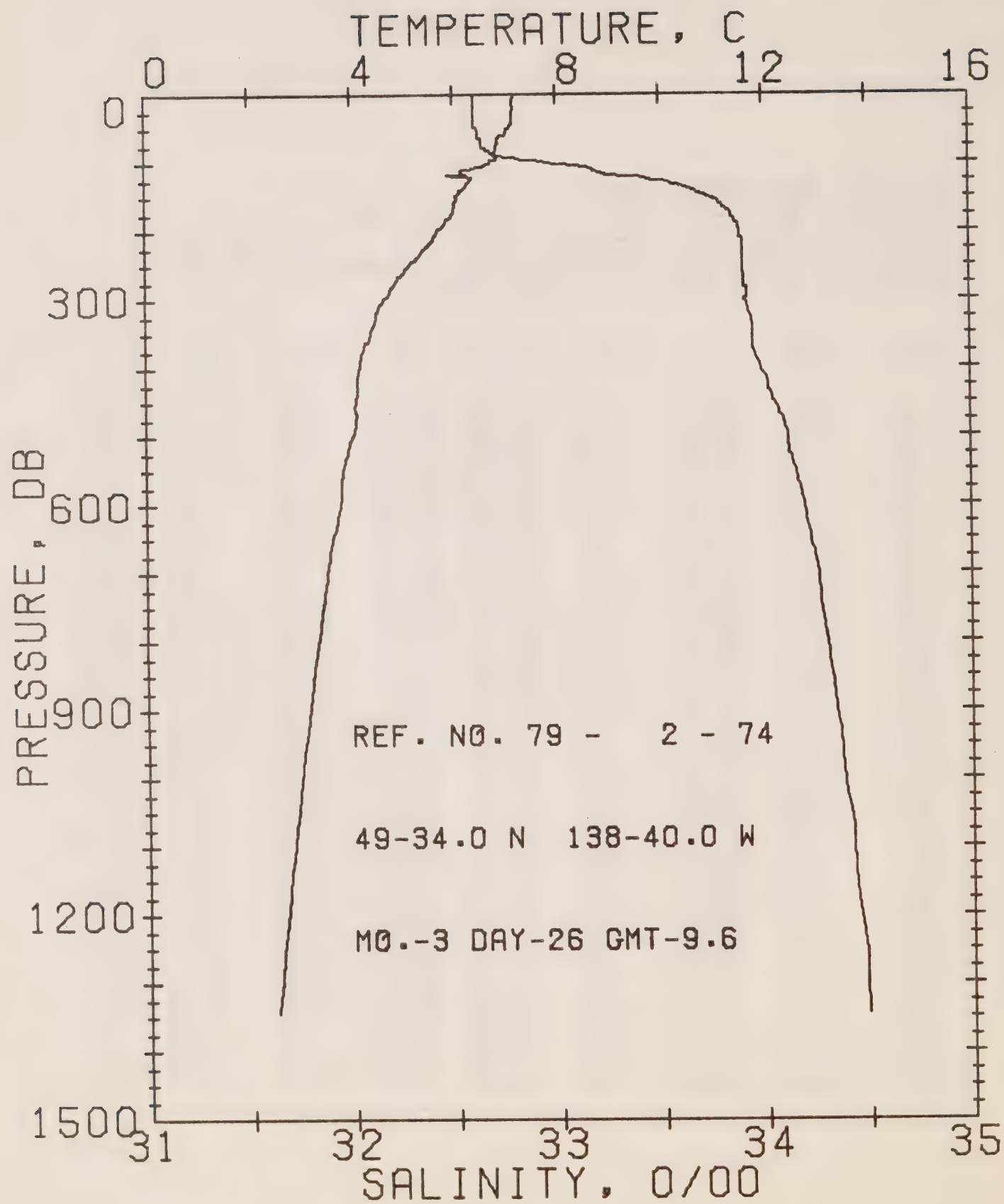
DATE 26/ 3/79

POSITION 49-34.0N, 138-40.0W GMT 9.6 STATION 10

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.17	32.60	0	25.53	246.1	.00	.00	1477.
10	7.15	32.60	10	25.53	246.0	.25	.01	1477.
20	7.16	32.60	20	25.53	246.3	.49	.05	1477.
30	7.15	32.60	30	25.53	246.3	.74	.11	1477.
40	7.15	32.60	40	25.53	246.3	.98	.20	1477.
50	7.05	32.61	50	25.55	244.8	1.23	.31	1477.
60	6.95	32.62	60	25.58	242.5	1.47	.45	1477.
70	6.86	32.63	70	25.60	240.8	1.72	.61	1477.
80	6.82	32.65	80	25.62	238.6	1.96	.79	1477.
90	6.80	32.71	89	25.67	234.4	2.19	1.00	1477.
100	6.71	32.97	99	25.89	213.6	2.42	1.22	1477.
110	6.19	33.17	109	26.11	192.7	2.62	1.43	1475.
120	6.04	33.32	119	26.24	179.8	2.81	1.65	1475.
130	6.27	33.55	129	26.40	165.3	2.98	1.87	1476.
140	6.12	33.65	139	26.49	156.4	3.14	2.09	1476.
150	6.05	33.73	149	26.57	149.7	3.29	2.32	1476.
160	6.02	33.80	159	26.63	144.3	3.44	2.55	1476.
170	6.00	33.83	169	26.65	141.9	3.58	2.79	1476.
180	5.92	33.85	179	26.68	139.6	3.72	3.04	1476.
190	5.82	33.88	189	26.71	136.5	3.86	3.30	1476.
200	5.68	33.89	199	26.74	133.9	4.00	3.57	1476.
210	5.60	33.89	209	26.75	132.7	4.13	3.85	1475.
220	5.51	33.90	218	26.77	131.3	4.26	4.14	1475.
230	5.37	33.90	228	26.78	129.8	4.39	4.44	1475.
240	5.25	33.90	238	26.80	128.5	4.52	4.75	1474.
250	5.13	33.90	248	26.81	127.3	4.65	5.07	1474.
260	5.03	33.90	258	26.82	126.2	4.78	5.40	1474.
270	4.91	33.91	268	26.84	124.2	4.90	5.73	1474.
280	4.82	33.91	278	26.85	123.3	5.02	6.08	1473.
290	4.74	33.92	288	26.87	121.8	5.15	6.43	1473.
300	4.63	33.91	298	26.88	121.1	5.27	6.80	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 74

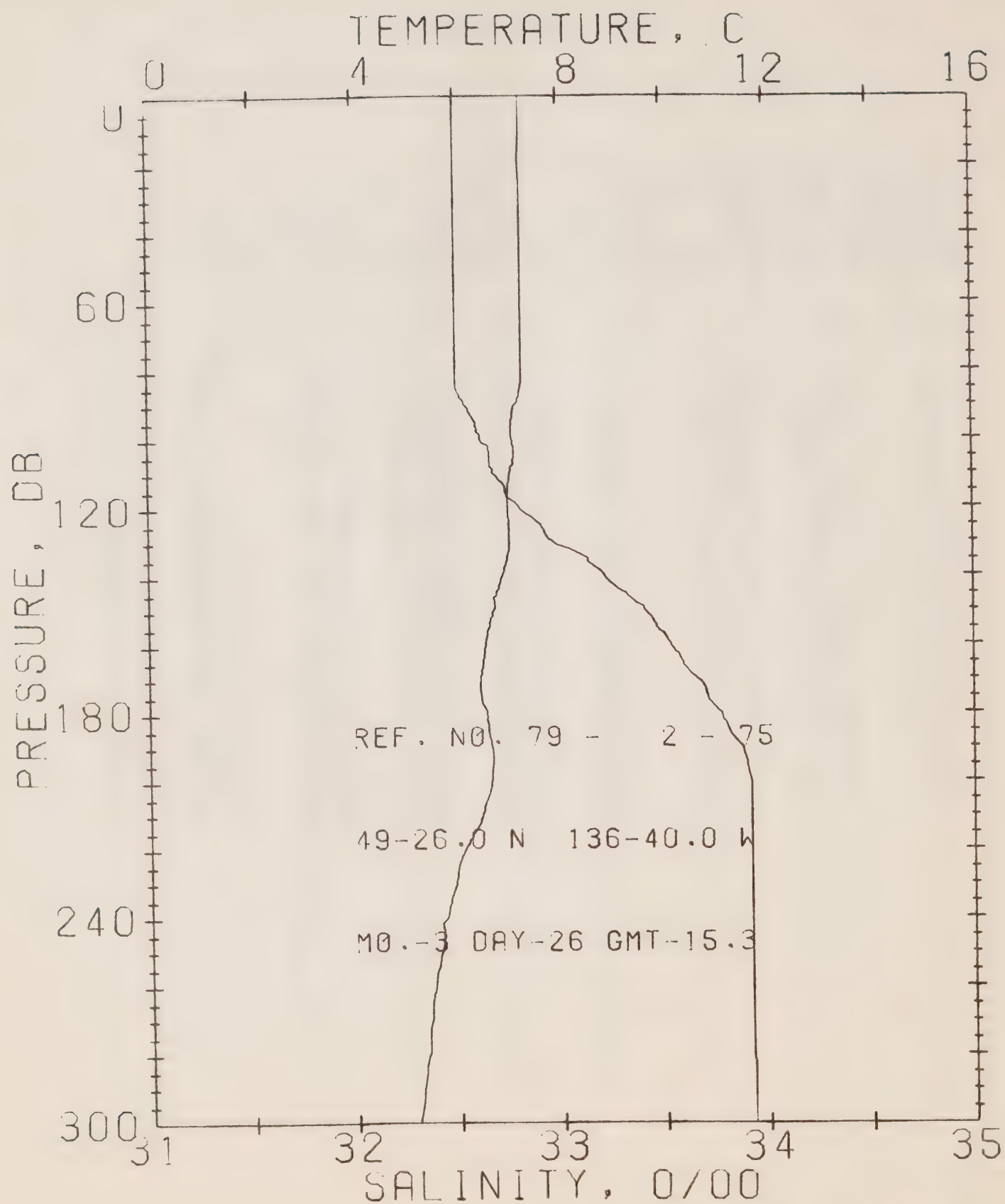
DATE 26/ 3/79

POSITION 49-34.0N, 138-40.0W GMT 9.6 STATION 10

RESULTS OF STP CAST 275 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.17	32.60	0	25.53	246.1	.00	.00	1477.
10	7.15	32.60	10	25.53	246.0	.25	.01	1477.
20	7.16	32.60	20	25.53	246.3	.49	.05	1477.
30	7.15	32.60	30	25.53	246.3	.74	.11	1477.
50	7.05	32.61	50	25.55	244.8	1.23	.31	1477.
75	6.83	32.64	75	25.61	239.8	1.84	.70	1476.
100	6.71	32.97	99	25.89	213.6	2.42	1.22	1477.
125	6.32	33.46	124	26.32	172.9	2.90	1.76	1476.
150	6.05	33.73	149	26.57	149.7	3.29	2.32	1476.
175	5.97	33.85	174	26.67	140.1	3.65	2.92	1476.
200	5.68	33.89	199	26.74	133.9	4.00	3.57	1476.
225	5.43	33.90	223	26.78	130.4	4.33	4.29	1475.
250	5.13	33.90	248	26.81	127.3	4.65	5.07	1474.
300	4.63	33.91	298	26.88	121.1	5.27	6.80	1473.
400	4.14	33.99	397	26.99	111.3	6.43	10.93	1473.
500	4.00	34.11	496	27.10	101.3	7.49	15.80	1474.
600	3.75	34.19	595	27.19	93.4	8.46	21.25	1475.
800	3.33	34.30	793	27.32	82.3	10.21	33.67	1476.
1000	2.96	34.38	990	27.42	73.7	11.76	47.87	1478.
1200	2.68	34.45	1188	27.50	66.2	13.16	63.48	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 75

DATE 26/ 3/79

POSITION 49-26.0N, 136-40.0W

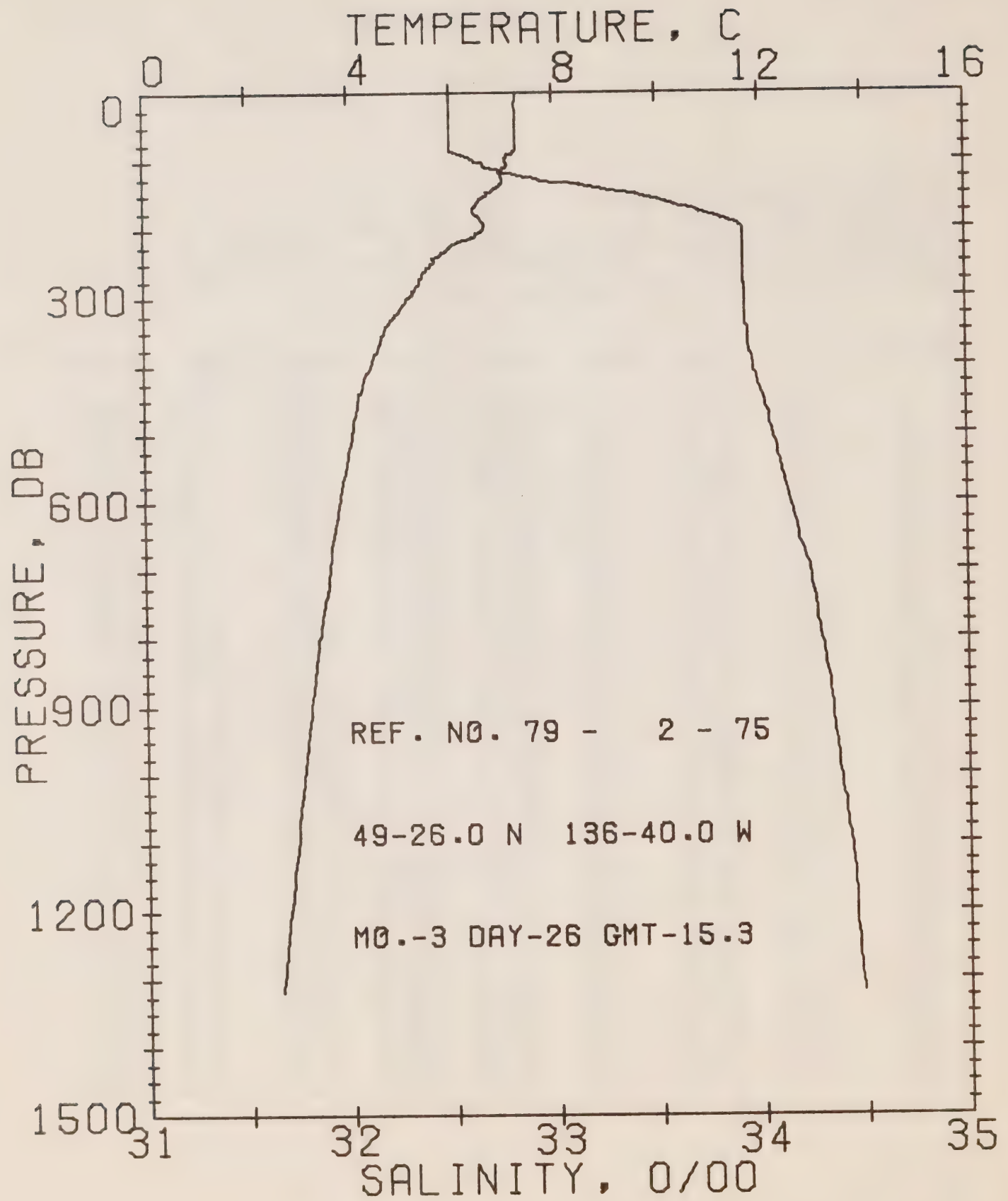
GMT 15.3

STATION 9

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.50	0	25.44	254.9	.00	.00	1477.
10	7.27	32.50	10	25.44	255.0	.25	.01	1477.
20	7.26	32.50	20	25.44	255.0	.51	.05	1477.
30	7.27	32.50	30	25.44	255.3	.77	.12	1477.
40	7.27	32.50	40	25.44	255.4	1.02	.21	1477.
50	7.27	32.50	50	25.44	255.5	1.28	.33	1478.
60	7.27	32.50	60	25.44	255.7	1.53	.47	1478.
70	7.27	32.50	70	25.44	255.8	1.79	.64	1478.
80	7.27	32.50	80	25.44	256.0	2.04	.83	1478.
90	7.18	32.54	89	25.48	251.9	2.30	1.05	1478.
100	7.07	32.61	99	25.55	245.4	2.55	1.29	1478.
110	7.04	32.67	109	25.60	240.7	2.79	1.55	1478.
120	6.98	32.80	119	25.71	230.4	3.02	1.83	1478.
130	7.01	32.96	129	25.84	219.0	3.25	2.12	1479.
140	6.89	33.21	139	26.05	198.9	3.46	2.40	1479.
150	6.71	33.41	149	26.23	181.9	3.65	2.68	1478.
160	6.54	33.53	159	26.35	170.9	3.82	2.96	1478.
170	6.44	33.66	169	26.46	160.1	3.99	3.24	1478.
180	6.55	33.78	179	26.54	152.7	4.14	3.52	1479.
190	6.65	33.88	189	26.61	146.7	4.29	3.80	1479.
200	6.63	33.92	199	26.64	143.6	4.44	4.09	1479.
210	6.46	33.92	209	26.66	141.5	4.58	4.39	1479.
220	6.12	33.92	218	26.71	137.3	4.72	4.69	1478.
230	5.92	33.92	228	26.73	135.0	4.86	5.01	1477.
240	5.77	33.92	238	26.75	133.3	4.99	5.33	1477.
250	5.65	33.92	248	26.77	131.9	5.12	5.66	1476.
260	5.51	33.92	258	26.78	130.3	5.25	6.00	1476.
270	5.44	33.92	268	26.79	129.6	5.38	6.35	1476.
280	5.38	33.92	278	26.80	129.0	5.51	6.71	1476.
290	5.27	33.93	288	26.82	127.1	5.64	7.08	1475.
300	5.17	33.93	298	26.83	126.0	5.77	7.46	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 75

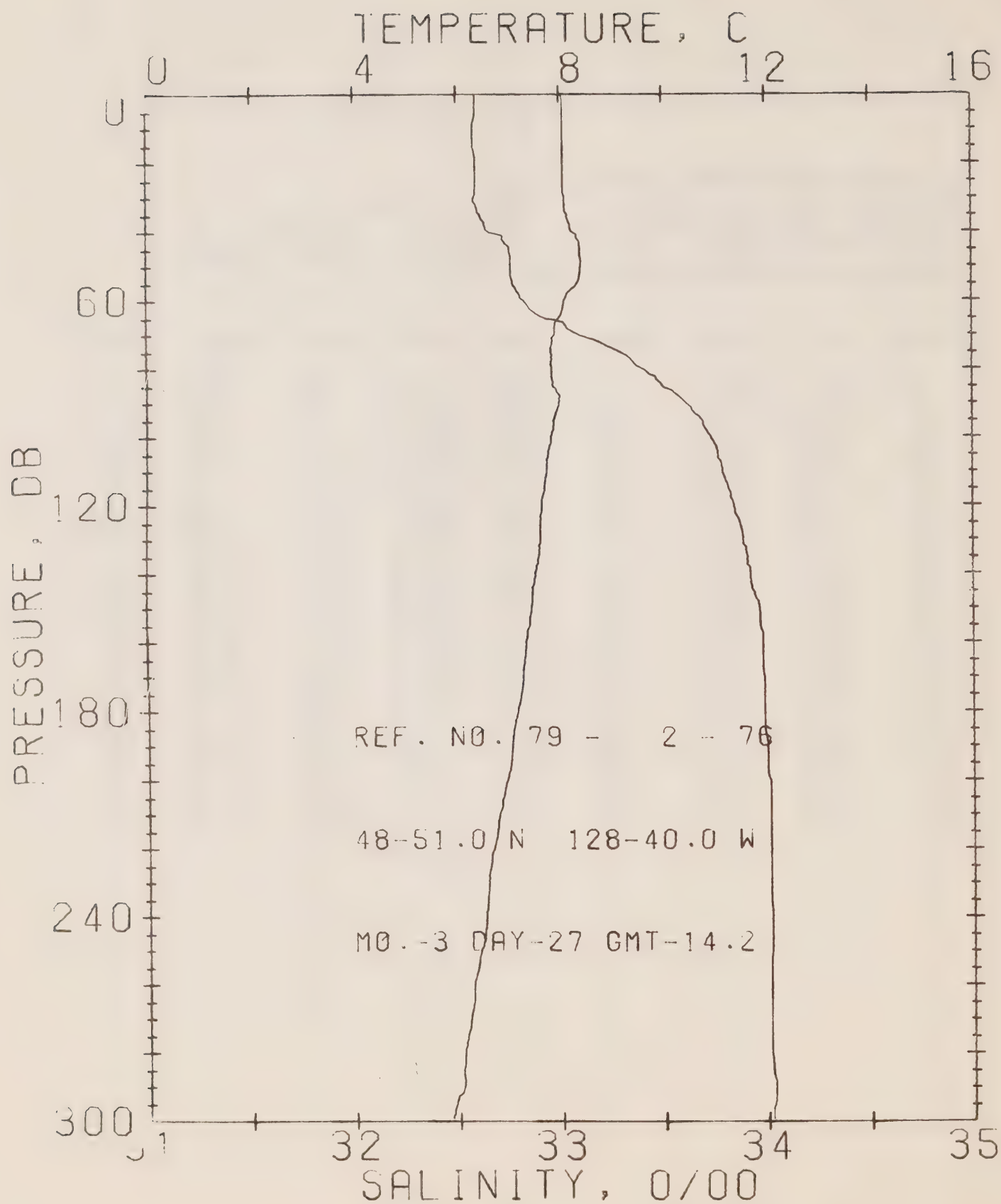
DATE 26/ 3/79

POSITION 49-26.0N, 136-40.0W GMT 15.3 STATION 9

RESULTS OF STP CAST 299 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.50	0	25.44	254.9	.00	.00	1477.
10	7.27	32.50	10	25.44	255.0	.25	.01	1477.
20	7.26	32.50	20	25.44	255.0	.51	.05	1477.
30	7.27	32.50	30	25.44	255.3	.77	.12	1477.
50	7.27	32.50	50	25.44	255.5	1.28	.33	1478.
75	7.27	32.50	75	25.44	255.9	1.92	.73	1478.
100	7.07	32.61	99	25.55	245.4	2.55	1.29	1478.
125	7.01	32.91	124	25.80	222.6	3.14	1.97	1478.
150	6.71	33.41	149	26.23	181.9	3.65	2.68	1478.
175	6.45	33.71	174	26.50	156.8	4.07	3.38	1478.
200	6.63	33.92	199	26.64	143.6	4.44	4.09	1479.
225	5.98	33.92	223	26.72	135.7	4.79	4.85	1477.
250	5.65	33.92	248	26.77	131.9	5.12	5.66	1476.
300	5.17	33.93	298	26.83	126.0	5.77	7.46	1475.
400	4.42	33.97	397	26.95	115.5	6.98	11.76	1474.
500	4.05	34.05	496	27.05	106.0	8.08	16.82	1474.
600	3.80	34.14	595	27.14	98.0	9.10	22.52	1475.
800	3.38	34.29	793	27.30	83.6	10.90	35.34	1476.
1000	3.05	34.38	990	27.41	74.9	12.48	49.78	1478.
1200	2.76	34.45	1188	27.49	67.5	13.89	65.60	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 76

DATE 27/ 3/79

POSITION 48-51.0N, 128-40.0W

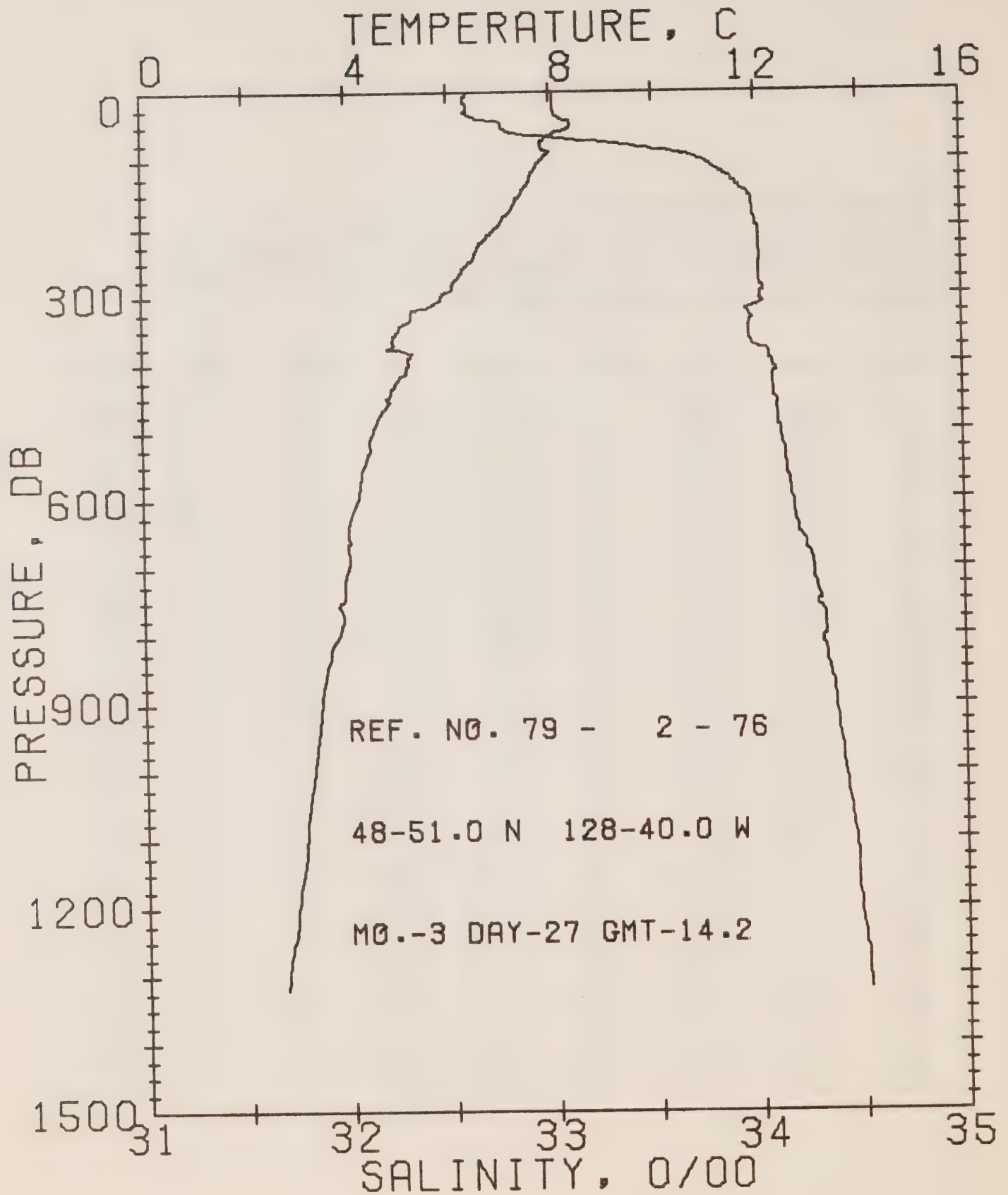
GMT 14.2

STATION 5

RESULTS OF STP CAST 193 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.06	32.59	0	25.40	258.8	.00	.00	1480.
10	8.08	32.58	10	25.39	259.9	.26	.01	1480.
20	8.09	32.59	20	25.39	259.5	.52	.05	1480.
30	8.10	32.58	30	25.38	260.5	.78	.12	1481.
40	8.25	32.65	40	25.42	257.6	1.04	.21	1481.
50	8.41	32.76	50	25.48	251.9	1.29	.33	1482.
60	8.08	32.83	60	25.58	242.1	1.54	.47	1481.
70	7.89	33.09	70	25.81	220.3	1.77	.62	1481.
80	7.84	33.41	80	26.07	196.0	1.98	.78	1482.
90	7.98	33.61	89	26.21	183.3	2.17	.94	1483.
100	7.82	33.73	99	26.33	172.3	2.34	1.11	1482.
110	7.73	33.79	109	26.39	166.7	2.51	1.29	1482.
120	7.62	33.84	119	26.44	161.4	2.68	1.49	1482.
130	7.59	33.89	129	26.48	157.7	2.84	1.69	1482.
140	7.49	33.92	139	26.52	154.2	2.99	1.90	1482.
150	7.42	33.97	149	26.57	150.0	3.14	2.13	1482.
160	7.31	33.98	159	26.59	147.6	3.29	2.36	1482.
170	7.25	33.99	169	26.61	146.2	3.44	2.61	1481.
180	7.14	33.99	179	26.63	144.9	3.59	2.87	1481.
190	7.03	34.00	189	26.65	142.7	3.73	3.14	1481.
200	6.94	34.01	199	26.67	141.0	3.87	3.43	1481.
210	6.77	34.01	209	26.69	138.9	4.01	3.72	1480.
220	6.68	34.01	218	26.70	137.8	4.15	4.02	1480.
230	6.55	34.01	228	26.72	136.3	4.29	4.34	1480.
240	6.51	34.02	238	26.74	135.1	4.42	4.66	1480.
250	6.40	34.02	248	26.75	133.9	4.56	5.00	1479.
260	6.27	34.01	258	26.76	133.1	4.69	5.35	1479.
270	6.21	34.01	268	26.77	132.4	4.82	5.70	1479.
280	6.09	34.01	278	26.78	131.0	4.96	6.07	1479.
290	6.06	34.03	288	26.80	129.4	5.09	6.45	1479.
300	5.85	34.02	298	26.82	127.5	5.21	6.84	1478.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 76

DATE 27/ 3/79

POSITION 48-51.0N, 128-40.0W

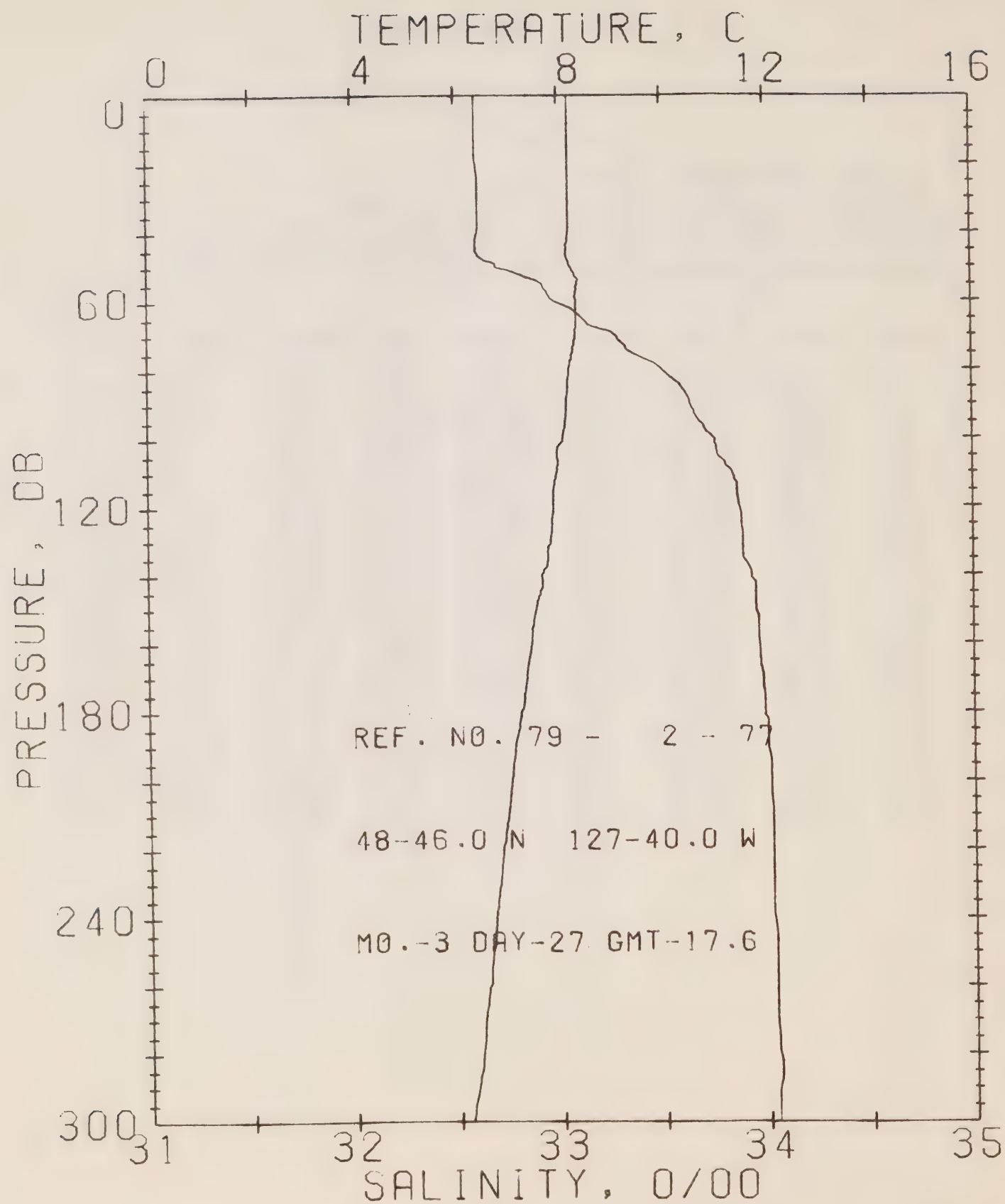
GMT 14.2

STATION 5

RESULTS OF STP CAST 365 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.06	32.59	0	25.40	258.8	.00	.00	1480.
10	8.08	32.58	10	25.39	259.9	.26	.01	1480.
20	8.09	32.59	20	25.39	259.5	.52	.05	1480.
30	8.10	32.58	30	25.38	260.5	.78	.12	1481.
50	8.41	32.76	50	25.48	251.9	1.29	.33	1482.
75	7.82	33.30	75	25.99	203.8	1.88	.70	1481.
100	7.82	33.73	99	26.33	172.3	2.34	1.11	1482.
125	7.61	33.87	124	26.47	159.1	2.76	1.59	1482.
150	7.42	33.97	149	26.57	150.0	3.14	2.13	1482.
175	7.21	33.99	174	26.62	145.7	3.51	2.74	1481.
200	6.94	34.01	199	26.67	141.0	3.87	3.43	1481.
225	6.61	34.01	223	26.71	136.9	4.22	4.18	1480.
250	6.40	34.02	248	26.75	133.9	4.56	5.00	1479.
300	5.85	34.02	298	26.82	127.5	5.21	6.84	1478.
400	5.21	34.07	397	26.94	117.0	6.44	11.19	1477.
500	4.50	34.11	496	27.05	107.0	7.55	16.31	1476.
600	4.19	34.17	595	27.13	100.2	8.59	22.10	1476.
800	3.79	34.32	793	27.29	86.1	10.43	35.18	1478.
1000	3.27	34.41	990	27.41	74.8	12.02	49.74	1479.
1200	2.92	34.48	1188	27.50	67.1	13.43	65.52	1481.



OFFSHORE OCEANOGRAPHY GROUP

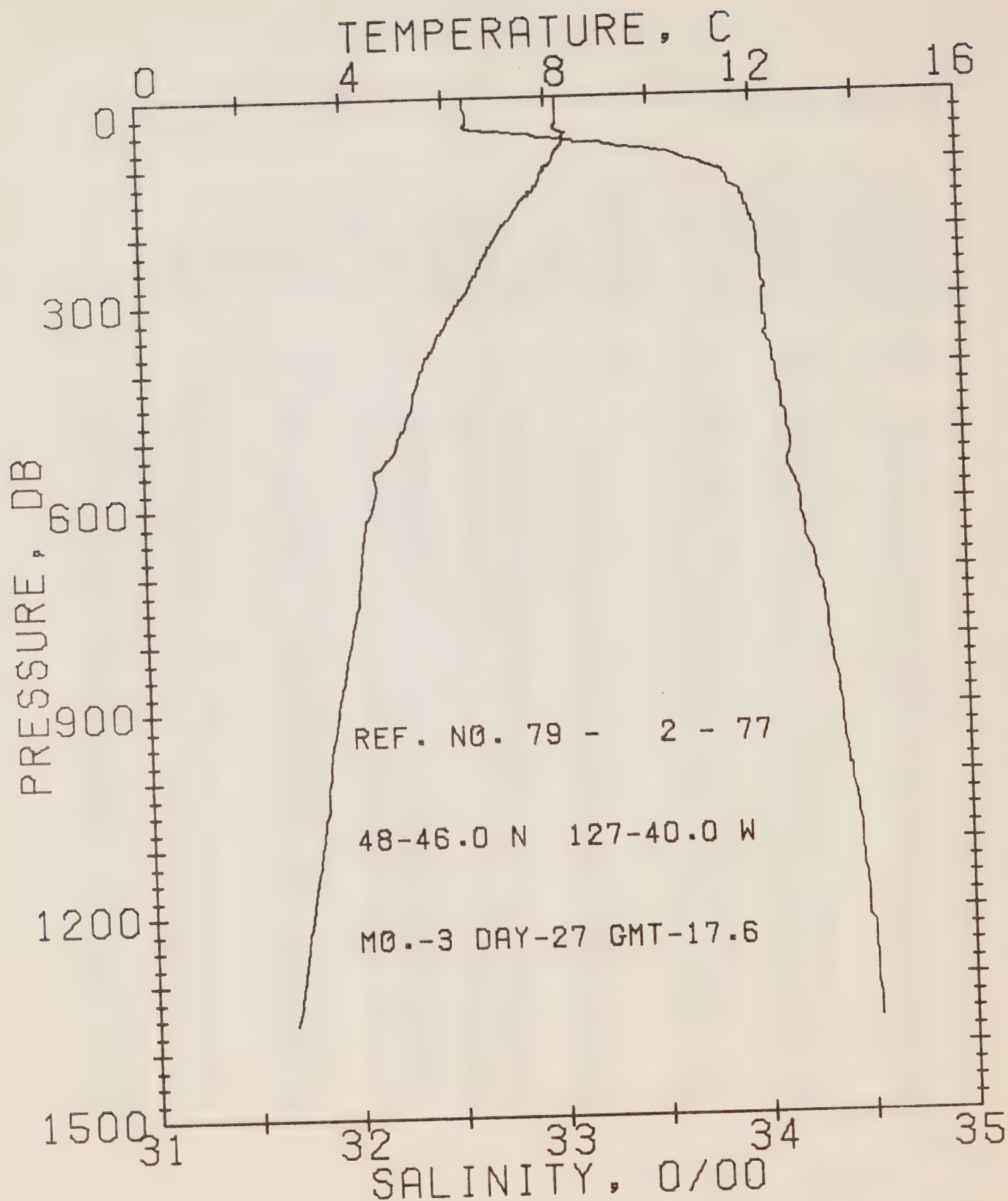
REFERENCE NO. 79- 2- 77 DATE 27/ 3/79

POSITION 48-46.0N, 127-40.0W GMT 17.6 STATION 4

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.22	32.60	0	25.38	260.3	.00	.00	1481.
10	8.20	32.60	10	25.39	260.1	.26	.01	1481.
20	8.20	32.60	20	25.39	260.0	.52	.05	1481.
30	8.22	32.61	30	25.39	259.9	.78	.12	1481.
40	8.20	32.61	40	25.39	260.1	1.04	.21	1481.
50	8.24	32.69	50	25.45	254.6	1.30	.33	1482.
60	8.34	32.98	60	25.66	234.7	1.54	.47	1483.
70	8.32	33.28	70	25.90	212.3	1.77	.61	1483.
80	8.19	33.50	80	26.09	194.3	1.97	.77	1483.
90	8.14	33.63	89	26.20	184.1	2.16	.93	1483.
100	8.05	33.75	99	26.31	174.1	2.34	1.11	1483.
110	7.94	33.84	109	26.39	166.1	2.51	1.29	1483.
120	7.87	33.87	119	26.43	162.6	2.67	1.48	1483.
130	7.81	33.89	129	26.45	160.8	2.83	1.69	1483.
140	7.66	33.93	139	26.51	155.8	2.99	1.91	1482.
150	7.52	33.95	149	26.54	152.6	3.15	2.13	1482.
160	7.42	33.96	159	26.57	150.2	3.30	2.37	1482.
170	7.33	33.98	169	26.59	148.0	3.45	2.62	1482.
180	7.23	33.99	179	26.61	146.1	3.59	2.89	1482.
190	7.10	34.00	189	26.64	143.7	3.74	3.16	1481.
200	7.00	34.01	199	26.66	141.8	3.88	3.44	1481.
210	6.94	34.02	209	26.68	140.5	4.02	3.74	1481.
220	6.84	34.02	218	26.69	139.2	4.16	4.04	1481.
230	6.78	34.02	228	26.70	138.6	4.30	4.36	1481.
240	6.70	34.02	238	26.71	137.5	4.44	4.69	1480.
250	6.62	34.03	248	26.73	136.0	4.58	5.04	1480.
260	6.58	34.03	258	26.73	135.6	4.71	5.39	1480.
270	6.47	34.03	268	26.75	134.3	4.85	5.75	1480.
280	6.42	34.04	278	26.77	132.8	4.98	6.13	1480.
290	6.32	34.04	288	26.78	131.8	5.11	6.51	1480.
300	6.21	34.04	298	26.79	130.6	5.24	6.90	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 77

DATE 27/ 3/79

POSITION 48-46.0N, 127-40.0W

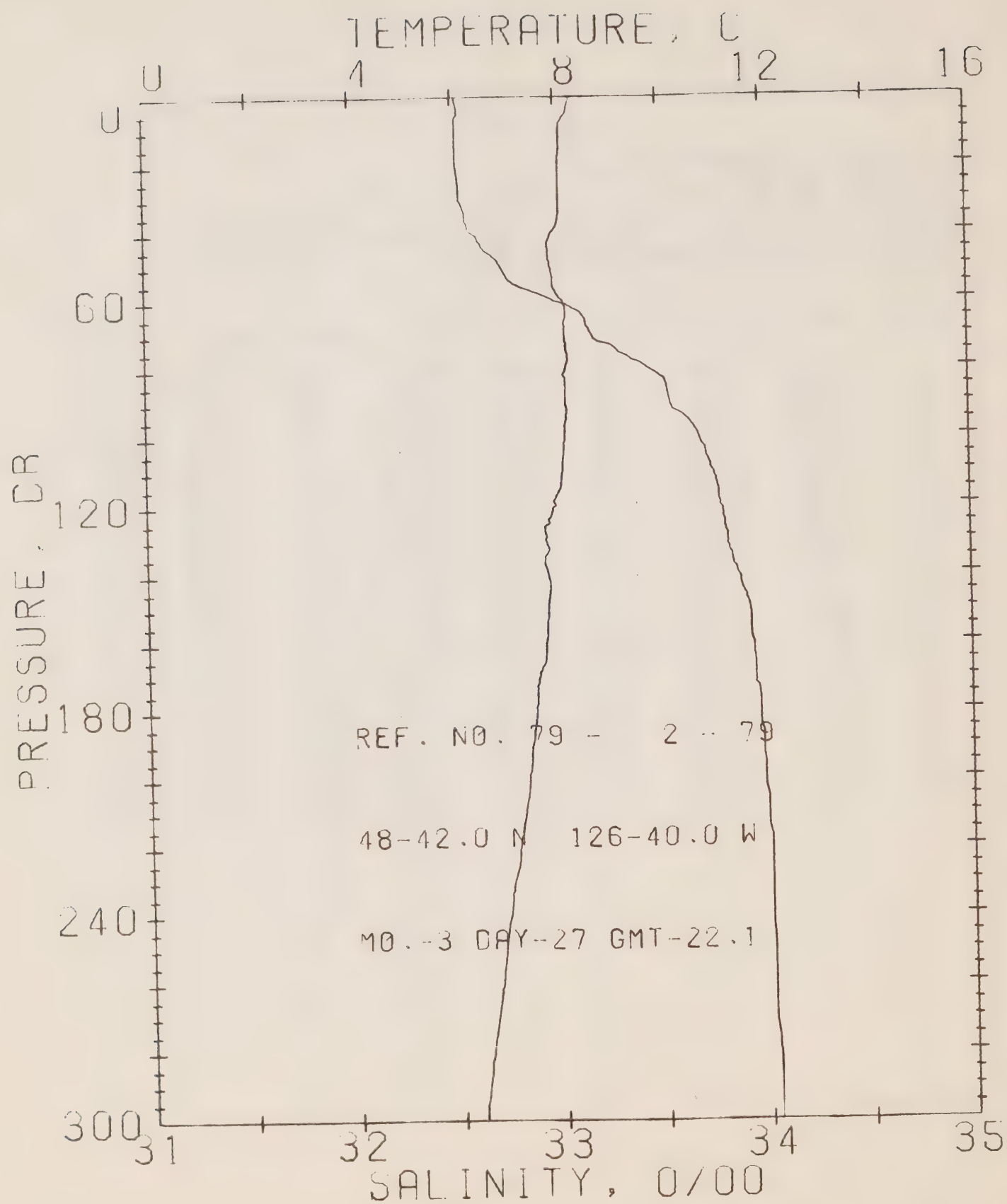
GMT 17.6

STATION 4

RESULTS OF STP CAST 331 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.22	32.60	0	25.38	260.3	.00	.00	1481.
10	8.20	32.60	10	25.39	260.1	.26	.01	1481.
20	8.20	32.60	20	25.39	260.0	.52	.05	1481.
30	8.22	32.61	30	25.39	259.9	.78	.12	1481.
50	8.24	32.69	50	25.45	254.6	1.30	.33	1482.
75	8.26	33.36	75	25.97	205.6	1.87	.69	1483.
100	8.05	33.75	99	26.31	174.1	2.34	1.11	1483.
125	7.85	33.88	124	26.44	162.0	2.75	1.58	1483.
150	7.52	33.95	149	26.54	152.6	3.15	2.13	1482.
175	7.29	33.99	174	26.61	146.8	3.52	2.75	1482.
200	7.00	34.01	199	26.66	141.8	3.88	3.44	1481.
225	6.80	34.02	223	26.70	138.7	4.23	4.20	1481.
250	6.62	34.03	248	26.73	136.0	4.58	5.04	1480.
300	6.21	34.04	298	26.79	130.6	5.24	6.90	1480.
400	5.46	34.09	397	26.92	118.8	6.49	11.36	1478.
500	4.97	34.15	496	27.03	109.6	7.64	16.60	1478.
600	4.44	34.20	595	27.13	100.5	8.69	22.48	1477.
800	3.95	34.33	793	27.28	87.0	10.55	35.73	1479.
1000	3.48	34.42	991	27.40	76.5	12.18	50.64	1480.
1200	3.07	34.49	1188	27.49	68.0	13.62	66.75	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 79

DATE 27/ 3/79

POSITION 48-42.0N, 126-40.0W

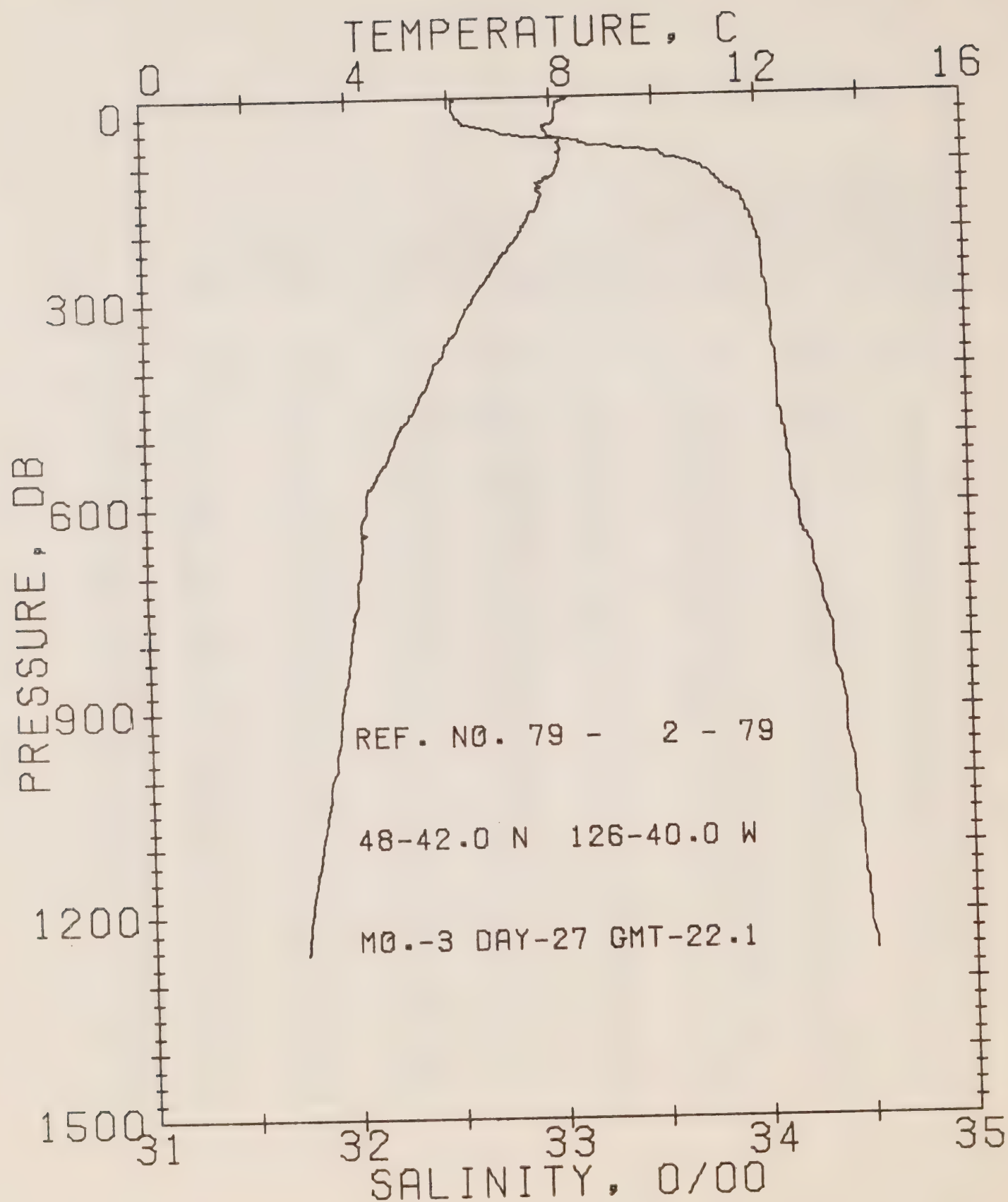
GMT 22.1

STATION 3

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.52	0	25.31	267.6	.00	.00	1481.
10	8.11	32.52	10	25.34	264.8	.27	.01	1480.
20	8.09	32.52	20	25.34	264.7	.53	.05	1480.
30	8.08	32.53	30	25.35	264.0	.79	.12	1481.
40	7.91	32.59	40	25.42	257.3	1.06	.21	1480.
50	7.90	32.73	50	25.53	246.9	1.31	.33	1480.
60	8.13	32.99	60	25.70	231.0	1.55	.46	1482.
70	8.16	33.17	70	25.84	218.2	1.77	.61	1482.
80	8.17	33.45	80	26.05	197.7	1.98	.77	1483.
90	8.17	33.55	89	26.13	190.7	2.17	.94	1483.
100	8.13	33.68	99	26.24	180.0	2.36	1.12	1483.
110	8.07	33.75	109	26.30	174.5	2.53	1.31	1483.
120	7.94	33.79	119	26.36	169.9	2.71	1.51	1483.
130	7.73	33.82	129	26.41	164.8	2.87	1.72	1482.
140	7.77	33.87	139	26.44	161.8	3.04	1.94	1483.
150	7.76	33.92	149	26.49	157.9	3.20	2.18	1483.
160	7.71	33.94	159	26.51	156.1	3.35	2.43	1483.
170	7.56	33.95	169	26.54	153.5	3.51	2.69	1483.
180	7.50	33.97	179	26.56	151.2	3.66	2.96	1483.
190	7.41	33.98	189	26.58	149.5	3.81	3.25	1482.
200	7.33	33.99	199	26.60	147.8	3.96	3.54	1482.
210	7.24	34.00	209	26.62	145.9	4.11	3.85	1482.
220	7.14	34.01	218	26.64	143.9	4.25	4.17	1482.
230	7.01	34.01	228	26.66	142.4	4.39	4.49	1482.
240	6.93	34.01	238	26.67	141.4	4.54	4.83	1481.
250	6.83	34.02	248	26.69	139.5	4.68	5.18	1481.
260	6.75	34.02	258	26.70	138.6	4.82	5.55	1481.
270	6.65	34.02	268	26.72	137.4	4.95	5.92	1481.
280	6.55	34.03	278	26.74	135.2	5.09	6.30	1481.
290	6.47	34.04	288	26.76	133.8	5.22	6.69	1480.
300	6.39	34.04	298	26.77	132.9	5.36	7.09	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 79

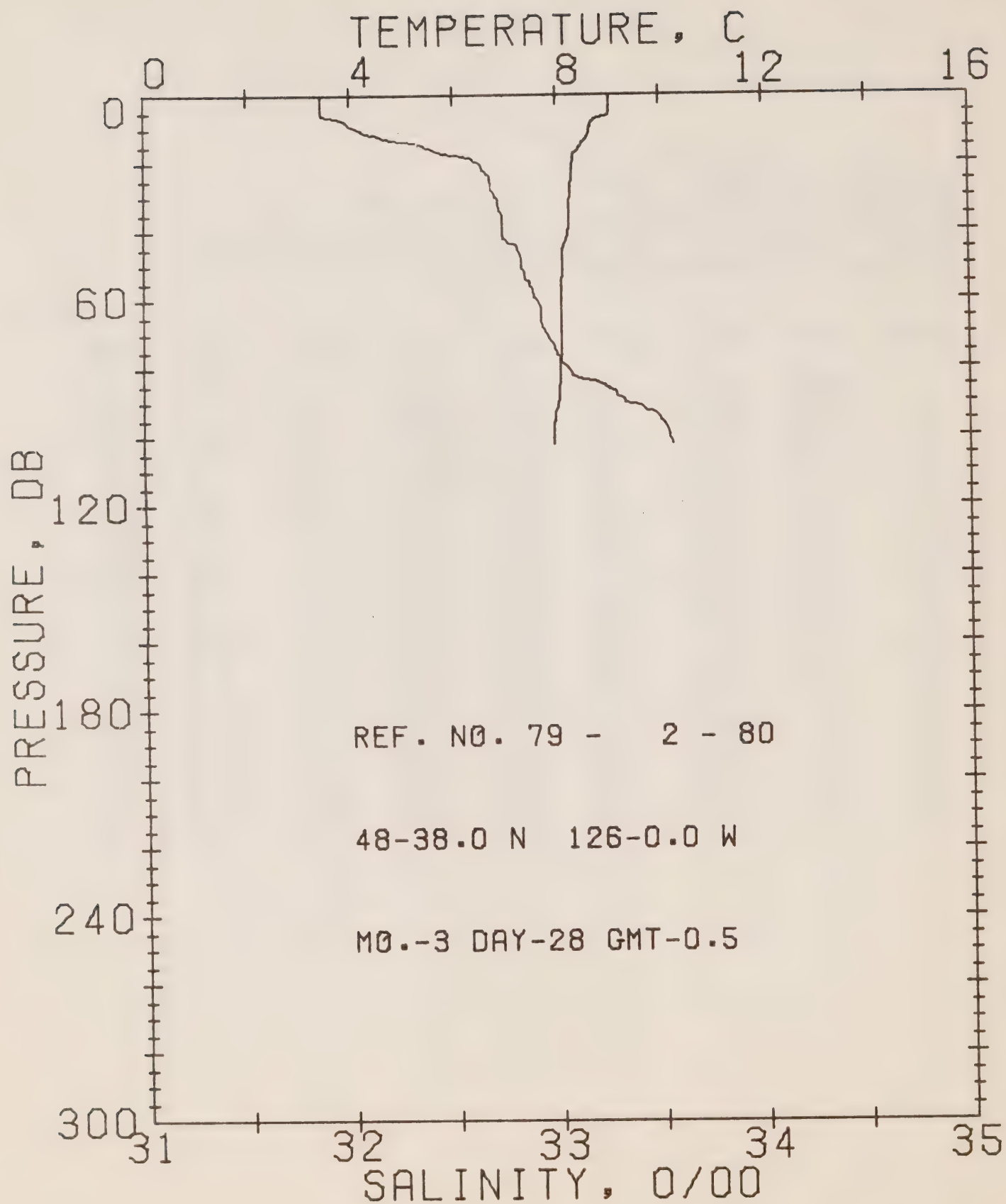
DATE 27/ 3/79

POSITION 48-42.0N, 126-40.0W GMT 22.1 STATION 3

RESULTS OF STP CAST 341 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.52	0	25.31	267.6	.00	.00	1481.
10	8.11	32.52	10	25.34	264.8	.27	.01	1480.
20	8.09	32.52	20	25.34	264.7	.53	.05	1480.
30	8.08	32.53	30	25.35	264.0	.79	.12	1481.
50	7.90	32.73	50	25.53	246.9	1.31	.33	1480.
75	8.19	33.30	75	25.93	209.0	1.88	.69	1483.
100	8.13	33.68	99	26.24	180.0	2.36	1.12	1483.
125	7.80	33.81	124	26.39	166.5	2.79	1.61	1483.
150	7.76	33.92	149	26.49	157.9	3.20	2.18	1483.
175	7.53	33.97	174	26.55	151.9	3.58	2.82	1483.
200	7.33	33.99	199	26.60	147.8	3.96	3.54	1482.
225	7.11	34.01	223	26.65	143.6	4.32	4.33	1482.
250	6.83	34.02	248	26.69	139.5	4.68	5.18	1481.
300	6.39	34.04	298	26.77	132.9	5.36	7.09	1480.
400	5.61	34.08	397	26.90	121.3	6.63	11.62	1479.
500	4.86	34.11	496	27.01	111.1	7.80	16.98	1477.
600	4.28	34.17	595	27.12	100.9	8.86	22.92	1477.
800	3.93	34.33	793	27.28	86.7	10.73	36.24	1479.
1000	3.51	34.43	991	27.40	76.3	12.37	51.20	1480.
1200	3.04	34.49	1188	27.50	67.7	13.81	67.32	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 80

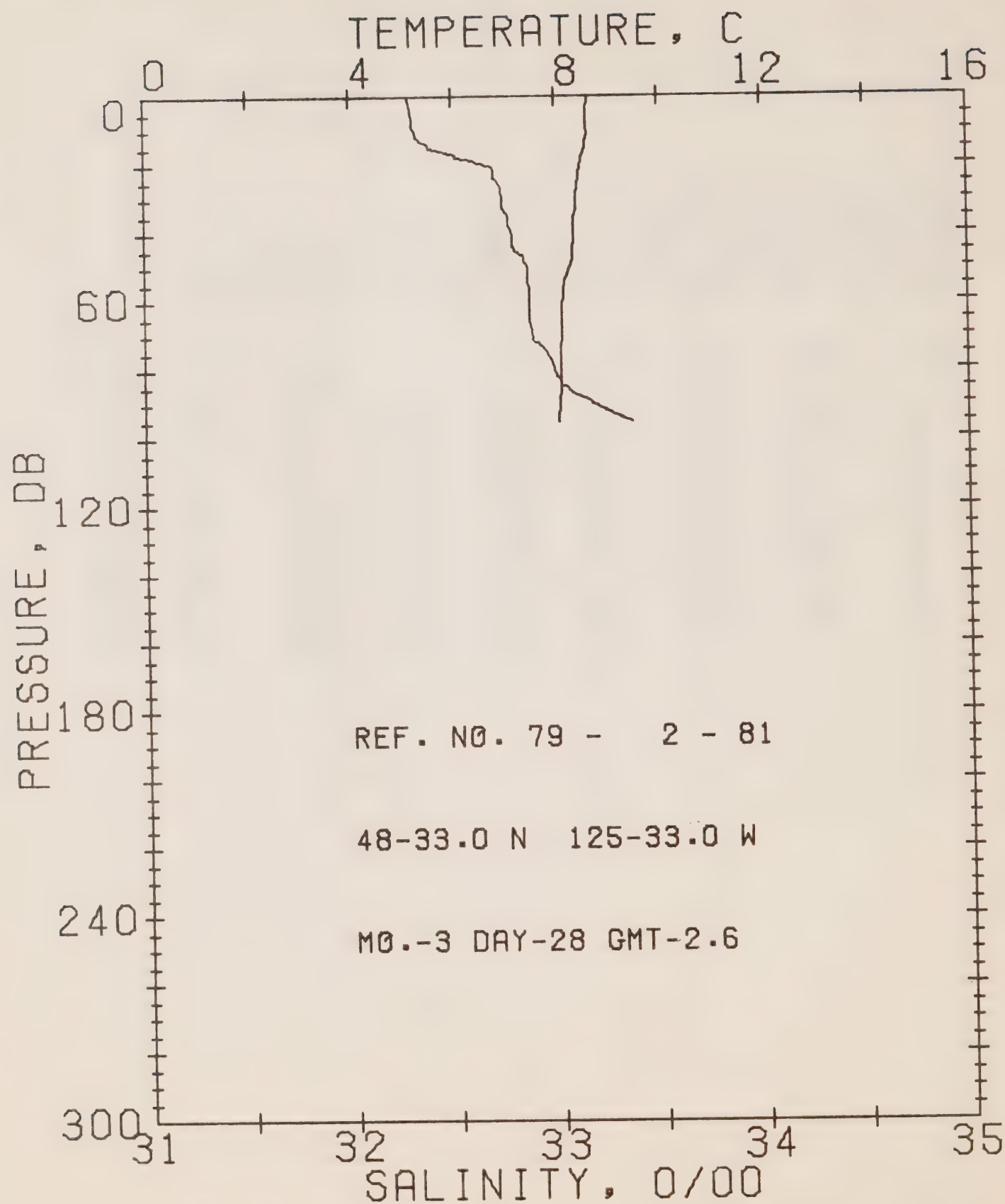
DATE 28/ 3/79

POSITION 48-38.0N, 126- .0W GMT .5 STATION 2

RESULTS OF STP CAST 82 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.02	31.86	0	24.68	326.7	.00	.00	1483.
10	8.65	32.04	10	24.88	308.1	.32	.02	1482.
20	8.30	32.61	20	25.38	261.0	.61	.06	1481.
30	8.26	32.70	30	25.45	253.9	.86	.12	1481.
40	8.22	32.73	40	25.48	251.2	1.11	.21	1481.
50	8.10	32.83	50	25.58	242.3	1.36	.33	1481.
60	8.08	32.90	60	25.64	236.9	1.60	.46	1481.
70	8.08	32.95	70	25.68	233.3	1.83	.62	1482.
80	8.06	33.05	80	25.76	225.8	2.06	.79	1482.
90	8.01	33.33	89	25.98	204.5	2.28	.98	1482.
100	7.91	33.54	99	26.16	187.7	2.47	1.16	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 2- 81

DATE 28/ 3/79

POSITION 48-33.0N, 125-33.0W GMT 2.6 STATION 1

RESULTS OF STP CAST 71 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.64	32.29	0	25.08	289.3	.00	.00	1482.
10	8.62	32.32	10	25.10	287.4	.29	.01	1482.
20	8.48	32.65	20	25.38	260.6	.57	.06	1482.
30	8.41	32.74	30	25.46	253.0	.82	.12	1482.
40	8.35	32.78	40	25.51	248.9	1.07	.21	1482.
50	8.27	32.86	50	25.58	242.4	1.32	.32	1482.
60	8.13	32.87	60	25.61	239.8	1.56	.46	1482.
70	8.10	32.88	70	25.62	238.5	1.80	.62	1482.
80	8.08	32.99	80	25.71	230.6	2.03	.80	1482.
90	8.06	33.17	89	25.85	217.1	2.26	.99	1482.

Surface Salinity and Temperature Observations

(P-79-2)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
 CRUISE REFERENCE NUMBER 79- 2

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DAY	GMT	0/00	C	WEST
79	2	9	2011	31.808		123-30
79	2	9	2131	31.946	7.0	124- 0
79	2	9	2240	27.947	6.5	124-30
79	2	10	16	31.550	6.7	125- 0
79	2	10	145	32.246	6.7	125-33
79	2	10	325	32.223	7.3	126- 0
79	2	10	513	32.385	7.8	126-40
79	2	10	900	32.338	6.9	127-40
79	2	10	1238	32.542	8.1	128-40
79	2	10	1606	32.581		129-40
79	2	10	1849	32.553	7.8	130-40
79	2	11	9	32.543	7.9	131-40
79	2	11	234	32.541	8.0	132-40
79	2	11	555	32.485		133-40
79	2	11	725	32.484	7.7	134-40
79	2	11	1155	32.464		135-40
79	2	11	1432	32.615	7.9	136-40
79	2	11	1800	32.505		137-40
79	2	11	2215	32.607	7.9	138-40
79	2	12	50	32.614		139-40
79	2	12	318	32.613	7.0	140-40
79	2	12	730	32.604		141-40
79	2	12	1258	32.611	7.2	142-40
79	2	12	2205	32.587		143-40
79	2	13	0	32.579		143-55
79	2	14	0	32.590	6.1	145- 0
79	2	15	0	32.607	6.0	ON STATION
79	2	16	0	32.592	6.0	ON STATION
79	2	17	0		5.8	ON STATION
79	2	18	0	32.611	5.7	ON STATION
79	2	19	0	32.611	5.7	ON STATION
79	2	20	0	32.583	5.8	ON STATION
79	2	21	0	32.610	5.7	ON STATION
79	2	22	0	32.610	5.7	ON STATION
79	2	23	0	32.612	5.7	ON STATION
79	2	24	0	32.608	5.6	ON STATION
79	2	25	0	32.625	5.5	ON STATION
79	2	26	0	32.607	5.5	ON STATION
79	2	27	0	32.610	5.5	ON STATION
79	2	28	0	32.594	5.7	ON STATION
79	3	1	0	32.626	5.3	ON STATION
79	3	2	0	32.604	5.7	ON STATION
79	3	3	0	32.621	5.5	ON STATION
79	3	4	0	32.592	5.6	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 2

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	3	5	0	32.600	5.6	ON STATION
79	3	6	0	32.594	5.7	ON STATION
79	3	7	0	32.598	5.7	ON STATION
79	3	8	0	32.590	5.8	ON STATION
79	3	9	0	32.597	5.8	ON STATION
79	3	10	0	32.600	5.7	ON STATION
79	3	11	0	32.608	6.0	ON STATION
79	3	12	0	32.611	5.5	ON STATION
79	3	13	0	32.590	6.0	ON STATION
79	3	14	0	32.592	5.9	ON STATION
79	3	15	0	32.600	5.6	ON STATION
79	3	16	0	32.602	5.7	ON STATION
79	3	17	0	32.589	5.7	ON STATION
79	3	18	0	32.606	5.7	ON STATION
79	3	19	0	32.608	5.7	ON STATION
79	3	20	0	32.607	5.8	ON STATION
79	3	21	0	32.614	5.6	ON STATION
79	3	22	0	32.607	5.7	ON STATION
79	3	23	0	32.593	6.1	ON STATION
79	3	24	0	32.600	5.9	ON STATION
79	3	25	0	32.612	6.0	145- 0
79	3	25	1422	32.616		143-40
79	3	25	1815	32.602	6.6	142-40
79	3	26	105	32.592		141-40
79	3	26	345	32.606	6.8	140-40
79	3	26	708	32.606		139-40
79	3	26	927	32.565	7.1	138-40
79	3	26	1230	32.559		137-40
79	3	26	1508	32.454	7.4	136-40
79	3	26	1840	32.457		135-40
79	3	26	2120	32.525	6.9	134-40
79	3	27	4	32.485		133-40
79	3	27	300	32.482		132-40
79	3	27	550	32.498		131-40
79	3	27	833	32.554		130-40
79	3	27	1120	32.620		129-40
79	3	27	1411	32.506	8.0	128-40
79	3	27	1901	32.535	8.3	127-40
79	3	27	2155	32.442	8.5	126-40
79	3	28	14	31.681	9.0	126- 0
79	3	28	232	32.250	8.7	125-33
79	3	28	445	31.321		125- 0
79	3	28	724	31.621	8.3	124-30
79	3	28	1019	31.825	7.2	124- 0

* DENOTES SALINITY SAMPLE TAKEN FROM A
BUCKET. ALL OTHER SAMPLES TAKEN FROM
THE SEAWATER LOOP

**OCEANOGRAPHIC OBSERVATIONS
AT OCEAN STATION P
23 March - 10 May 1979
VOLUME 99**



**INSTITUTE OF OCEAN SCIENCES
Sidney, B.C.**



For additional copies or further information please write to:

Department of Fisheries and Oceans

Institute of Ocean Sciences

P.O. Box 6000

Sidney, B.C.

CANADA

V8L 4B2

CAI
EP321
-81R13

Pacific Marine Science Report 81-13

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

23 March - 10 May 1979

VOLUME 99

Institute of Ocean Sciences

Sidney, B.C.

1981

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

TABLE OF CONTENTS

ABSTRACT.....	1
TABLE OF CONTENTS.....	111
INTRODUCTION.....	1
PROGRAM OF OBSERVATIONS.....	2
OBSERVATIONAL PROCEDURES.....	3
COMPUTATIONS.....	4
REFERENCES.....	5
LOG OF STD OBSERVATIONS.....	6
MILE GRID.....	8
RESULTS OF STD OBSERVATIONS.....	13
SURFACE SALINITY AND TEMPERATURE OBSERVATIONS.....	307

LIST OF FIGURES

Figure 1. Chart showing Line P station positions.....	9
Figure 2. Salinity difference between hydro data and STD (STD consec. #1-32).....	14
Figure 3. Temperature difference between hydro data and STD (STD consec. #1-32).....	15
Figure 4. Salinity difference between hydro data and STD (STD consec. #33-83).....	16
Figure 5. Temperature difference between hydro data and STD (STD consec. #33-83).....	17

INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude $50^{\circ}00'N$, Longitude $145^{\circ}00'W$) was inaugurated in December 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at $40'$, i.e. $139^{\circ}40'W$, $141^{\circ}40'W$, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes STD and surface salinity and temperature data collected from the CCGS Vancouver during the period 23 March to 10 May 1979.

All physical oceanographic data have been stored by the Marine Environmental Data Services Branch (MEDS), Department of Fisheries and Oceans, 240 Sparks Street, 7th Floor West, Ottawa, Ontario, Canada, K1A 0E6. Requests for these data should be directed to MEDS.

Biological and productivity data are published in the Manuscript Report series of the Department of Fisheries and Oceans (DFO), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to DFO.

Marine geochemical data are for the Ocean Chemistry Division, Department of Fisheries and Oceans, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B. C., Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS VANCOUVER, 23 March - 10 May 1979 (P-79-3)
(MEDS Ref. No. 15-79-003)

Oceanographic observations were made by the officers and crew of the CCGS Vancouver.

En Route to Station P (Line P)

STD profiles were taken at Line P stations 1 to 12.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

- 1) Forty-four STD profiles were taken at Station P.
Fifteen STD profiles were taken at MILE GRID positions.
- 2) Daily salinity samples were taken from the seawater loop.
- 3) BT's or XBT's were taken every three hours to coincide with meteorological observations, encoded and transmitted according to the IGOSS format.

Marine Geochemistry

Samples for air CO₂, PCO₂, POC, alkalinity, nutrients and tritium obtained during this cruise are for the Ocean Chemistry Division and are not included in this data report.

Biological Oceanography

Samples from 150 metre vertical plankton hauls (Station P) and nutrients (Line P) obtained during this cruise are for the Pacific Biological Station and are not included in this data report.

En Route from Station P (Line P)

STD profiles were taken at Line P stations 12 to 1.

Surface salinity and nutrient samples were taken from the seawater loop or bucket.

The surface temperature recorder (engine intake) and thermosalinograph (seawater loop) were run continuously.

Mechanical BT's or XBT's were taken at all BT positions.

Observations for Other Agencies

- 1) Marine mammal observations were made by the ship's officers for Mr. M. Bigg, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., Canada.
- 2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiget, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

OBSERVATIONAL PROCEDURES

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}\text{C}$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a '*' in this data record.

Salinity determinations were made ashore with a Guildline Autosol salinometer. Accuracy using duplicated determinations is estimated to be $\pm 0.003^{\circ}/\text{oo}$.

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^{\circ}\text{C}$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^{\circ}\text{C}$ for temperature and $\pm 0.1^{\circ}/\text{oo}$ for salinity.

STD profiles were taken with a Guildline Model 8700 STD system.

COMPUTATIONS

Analog traces from the salinity-temperature-pressure instrument have been digitized using a Hewlett-Packard (HP) 9821A calculator and an HP 9864A digitizer, then replotted by an HP 9862A plotter. Digitization was continued until original and computer plotted traces were coincident.

The HP 9821A was then connected to an HP 2116 minicomputer and the digitized data transferred to 9-track tape. Using a UNIVAC 1106 computer the data was listed and obvious spikes removed, then a correction was applied.

Generally the correction is determined by comparison with hydrographic casts of the same cruise. As no hydrographic casts were taken, the STD data were compared with the last 3 hydrographic casts from cruise 79-002 and the first 3 hydrographic casts from cruise 79-004 (previous to and following this cruise).

STD consecutive numbers 1-32 were compared with cruise 79-002. Corrections applied to these STD's to produce data in this report are:

PRESS	TEMP	SAL
0db	+0.24°C	-0.15°/oo
1500db	+0.21°C	-0.12°/oo

STD consecutive numbers 33-83 were compared with cruise 79-004. Corrections applied to these STD's to produce data in this report are:

PRESS	TEMP	SAL
0db	+0.25°C	-0.26°/oo
1500db	+0.21°C	-0.20°/oo

Temperature and salinity values were listed at standard pressures and plotted using a Houston Complot DP8S Plotter.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from magnetic tape records.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)

SVA (THETA) is potential specific volume anomaly
 DELTA D is geopotential anomaly (J/kg)
 POT EN is potential energy in units of 10^8 ergs/cm²
 SOUND is the velocity of sound in metres per second

Data were processed for publication by Messrs. C. de Jong, B. Minkley, and J. Linguanti.

REFERENCES

- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. and Oceanogr.* 10, 141-143.
- Collins, C.A., R.L. Tripe, D.A. Healey and J. Joergensen, 1969. The time distribution of serial oceanographic data from the Ocean Station P programme. *Fish. Res. Bd. Can. Tech. Rept. No.* 106.
- MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript) Pacific Marine Science Report 77-9.
- Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. *Deep Sea Res.* 15, 185-193.
- U.S.N. Hydrographic Office, 1955. Instruction Manual of Oceanographic Observations. Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
001	1	23/03/79	2330	100		} Line P
002	2	24/03/79	0101	100		
003	3	24/03/79	0309	1200		
004	4	24/03/79	0642	1350		
005	5	24/03/79	0955	1360		
006	6	24/03/79	1615	1340		
007	7	24/03/79	2225	1350		
008	8	25/03/79	0425	1360		
009	9	25/03/79	1055	1390		
010	10	25/03/79	1745	1360		
011	11	26/03/79	0212	1300		
012	12	26/03/79	0900	1370		
013	P	26/03/79	2100	1300		} MILE grid
014	P	27/03/79	1710	1370		
015	P	27/03/79	1749	300		
016	E3	27/03/79	1932	300		
017	E4	27/03/79	2105	300		
018	C1	27/03/79	2320	300		
019	W4	28/03/79	0112	300		
020	W3	28/03/79	0315	300		
021	P	28/03/79	1710	1400		
022	P	29/03/79	1725	1400		
023	P	30/03/79	1710	1400		
024	P	31/03/79	1710	1400		} MILE grid
025	P	01/04/79	1710	1400		
026	P	02/04/79	1710	1400		
027	P	03/04/79	1710	1400		
028	P	04/04/79	1711	1400		
029	P	05/04/79	1710	1400		
030	P	06/04/79	1720	1400		
031	P	07/04/79	1710	1400		
032	P	08/04/79	1718	1400		
033	P	09/04/79	1720	1400		
034	P	10/04/79	1710	1350		
035	P	10/04/79	1740	300		} MILE grid
036	E3	10/04/79	1935	300		
037	E4	10/04/79	2125	300		
038	C1	10/04/79	2325	300		
039	W4	11/04/79	0115	300		
040	W3	11/04/79	0255	300		
041	P	11/04/79	1710	1400		
042	P	12/04/79	1710	1400		
043	P	13/04/79	1710	1400		
044	P	14/04/79	1710	1400		
045	P	15/04/79	1710	1350		
046	P	16/04/79	1710	1400		
047	P	17/04/79	1710	1350		
048	P	18/04/79	1710	1400		
049	P	19/04/79	1710	1200		
050	P	20/04/79	1720	1400		

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS (continued)

Consec #	Stations	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
051	P	21/04/79	1710	1400		
052	P	22/04/79	1715	1400		
053	P	23/04/79	1710	1350		
054	P	24/04/79	1710	1400		
055	P	25/04/79	1710	1400		
056	P	26/04/79	1710	1400		
057	P	27/04/79	1710	1400		
058	P	28/04/79	1710	1400		
059	P	29/04/79	1710	1400		
060	P	30/04/79	1710	1400		
061	P	30/04/79	1730	300		
062	E3	30/04/79	1900	300		
063	E4	30/04/79	2015	300		
064	C1	30/04/79	2130	300		
065	W4	30/04/79	2350	300		
066	W3	01/05/79	0140			
067	P	01/05/79	1710	1400		
068	P	02/05/79	1710	1400		
069	P	03/05/79	1710	1400		
070	P	04/05/79	1710	1400		
071	P	05/05/79	1710	1400		
072	12	06/05/79	2110	1400		
073	11	07/05/79	0250	1400		
074	10	07/05/79	0915	1350		
075	9	07/05/79	1550	1350		
076	8	07/05/79	2230	1300		
077	7	08/05/79	0500	1400		
078	6	08/05/79	1212	1200		
079	5	08/05/79	1900	1200		
080	4	08/05/79	2300	1300		
081	3	09/05/79	0235	1200		
082	2	09/05/79	0515	100		
083	1	09/05/79	0700	100		

MILE
grid

Line P

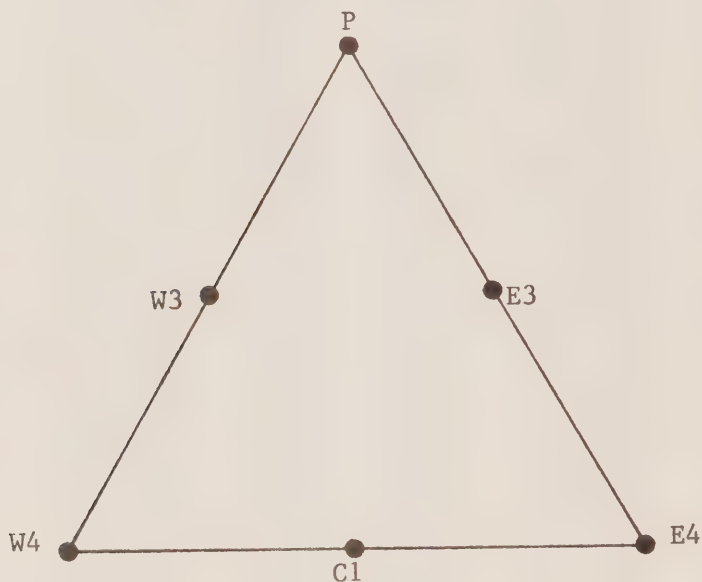
MILE GRID

(MIXED LAYER EXPERIMENT)

During the MILE experiment in the summer of 1977 a 20-mile triangular grid was initiated with STD stations to 300 metres.

During this cruise the grid survey was completed three times.

1st - STD consec. #015 - #020
 2nd - STD consec. #035 - #040
 3rd - STD consec. #061 - #066



Station ID and positions are as follows:

P = $50^{\circ}00'N$, $145^{\circ}00'W$
 E3 = $49^{\circ}52'N$, $144^{\circ}52'W$
 E4 = $49^{\circ}43'N$, $144^{\circ}44'W$
 C1 = $49^{\circ}42'N$, $145^{\circ}00'W$
 W4 = $49^{\circ}43'N$, $145^{\circ}15'W$
 W3 = $49^{\circ}52'N$, $145^{\circ}07'W$

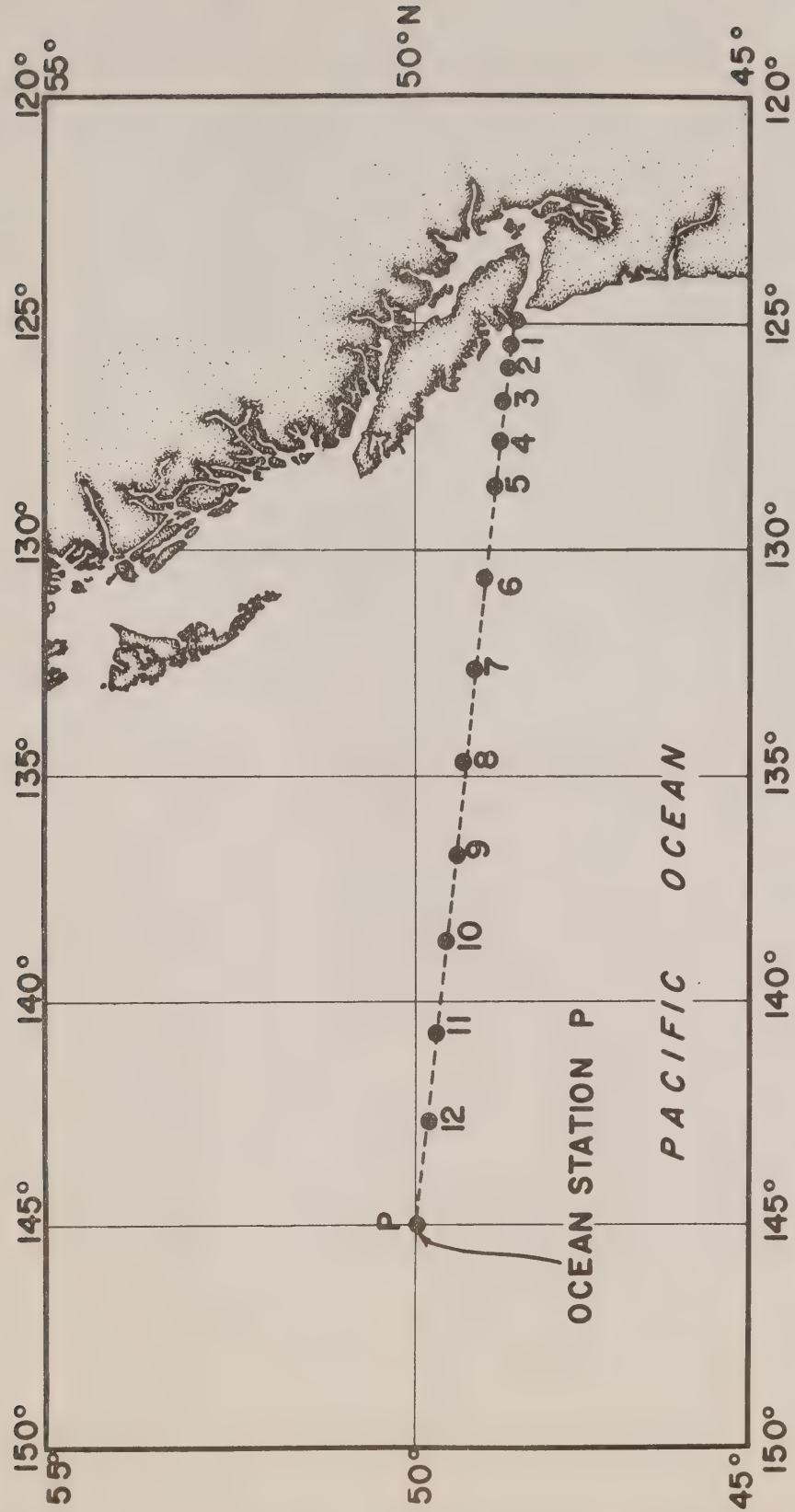


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-79-3

(MEDS Reference No. 15-79-003)

Results of STD Observations

(P-79-3)

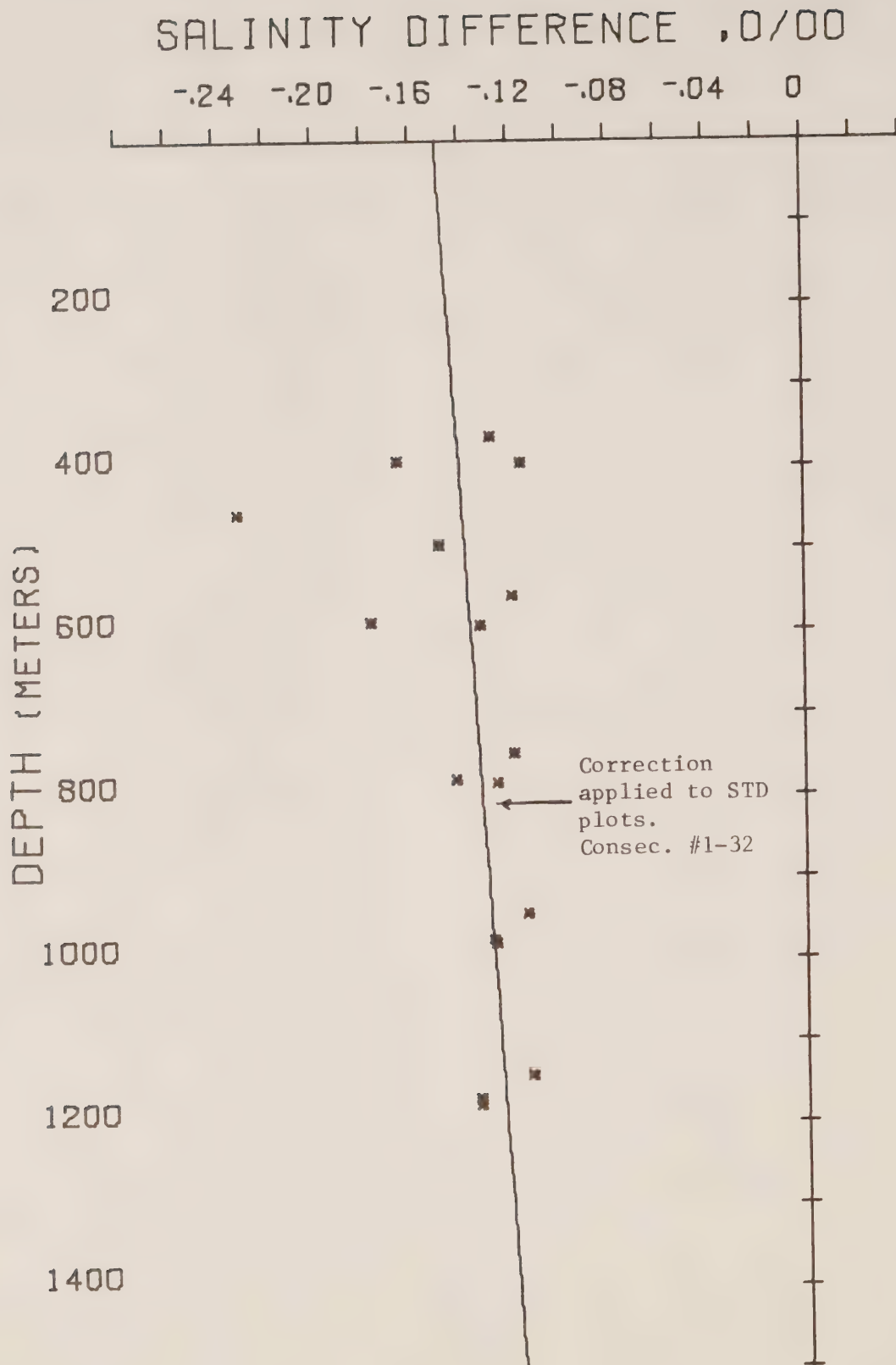


Figure 2. Salinity difference between hydro data and
STD. P-79-3

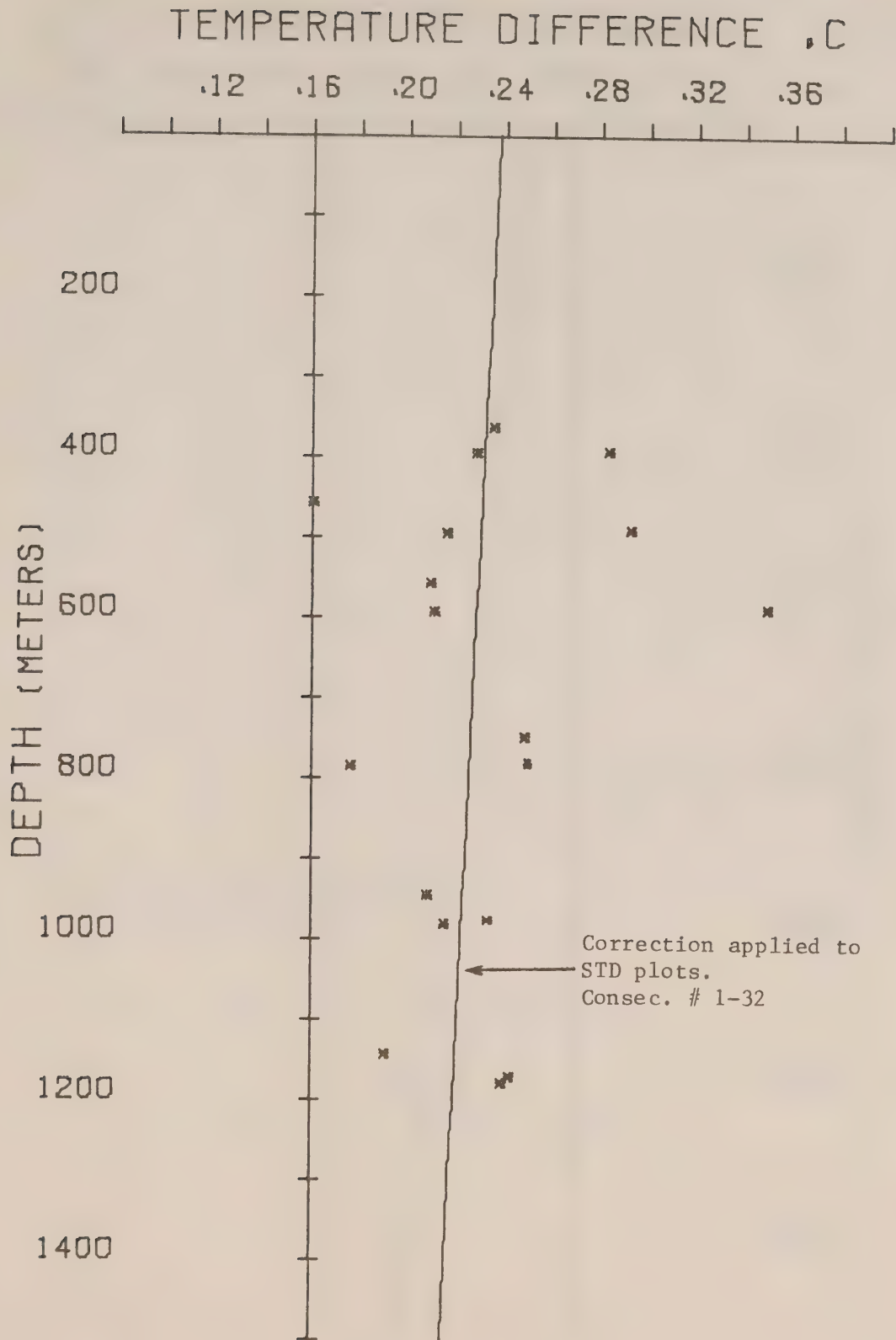


Figure 3. Temperature difference between hydro data and STD.
P-79-3

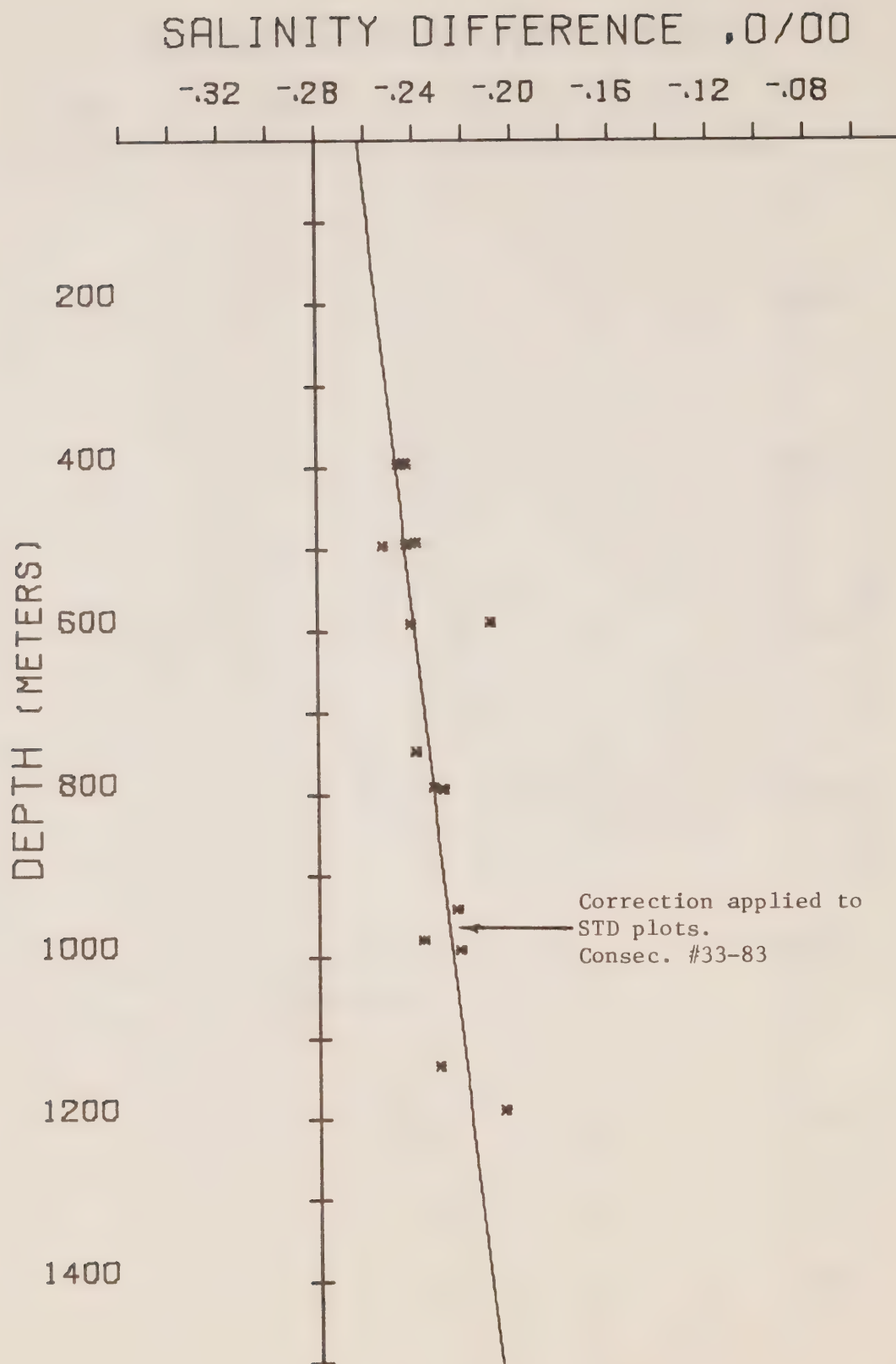


Figure 4. Salinity difference between hydro data and STD.
P-79-3

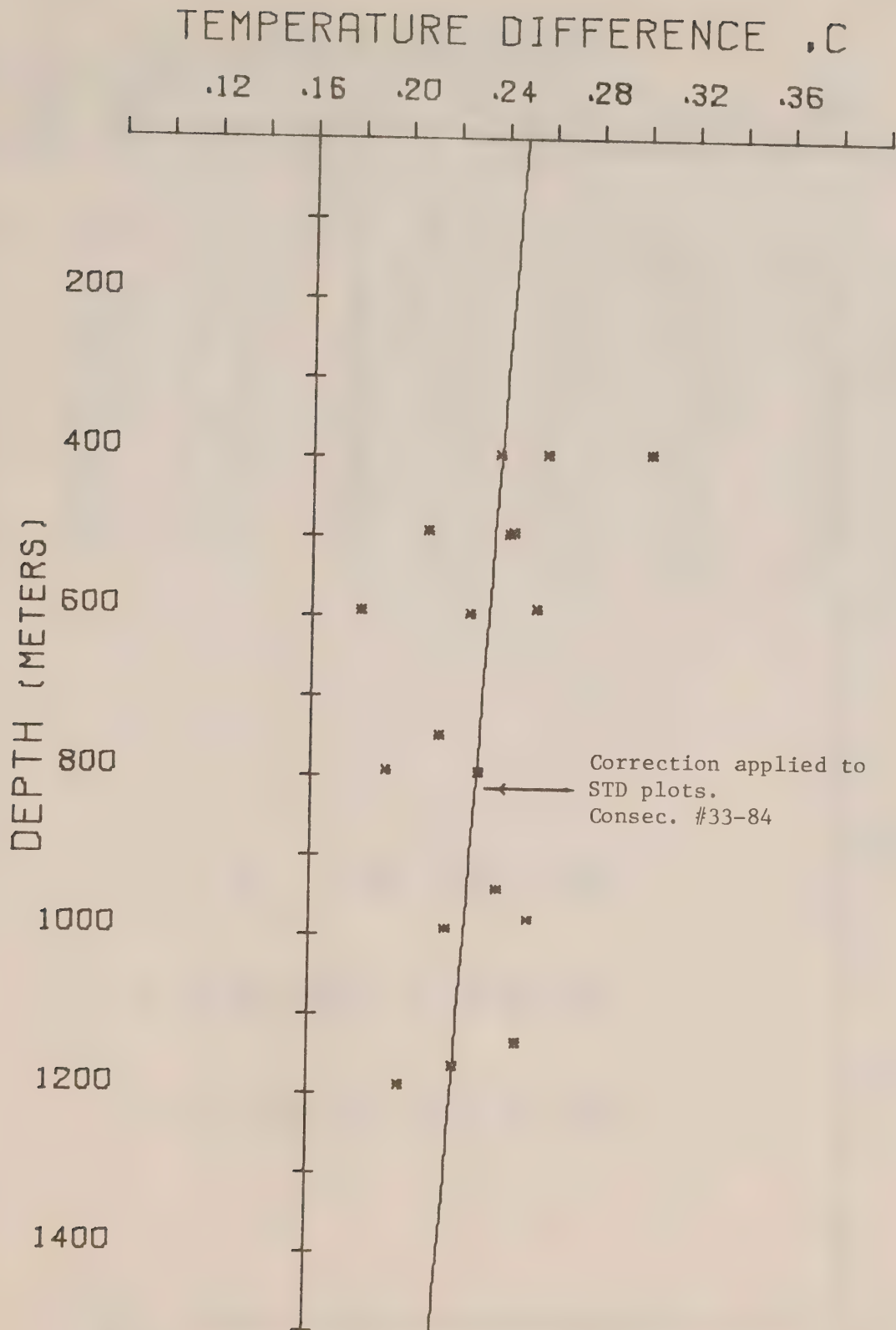
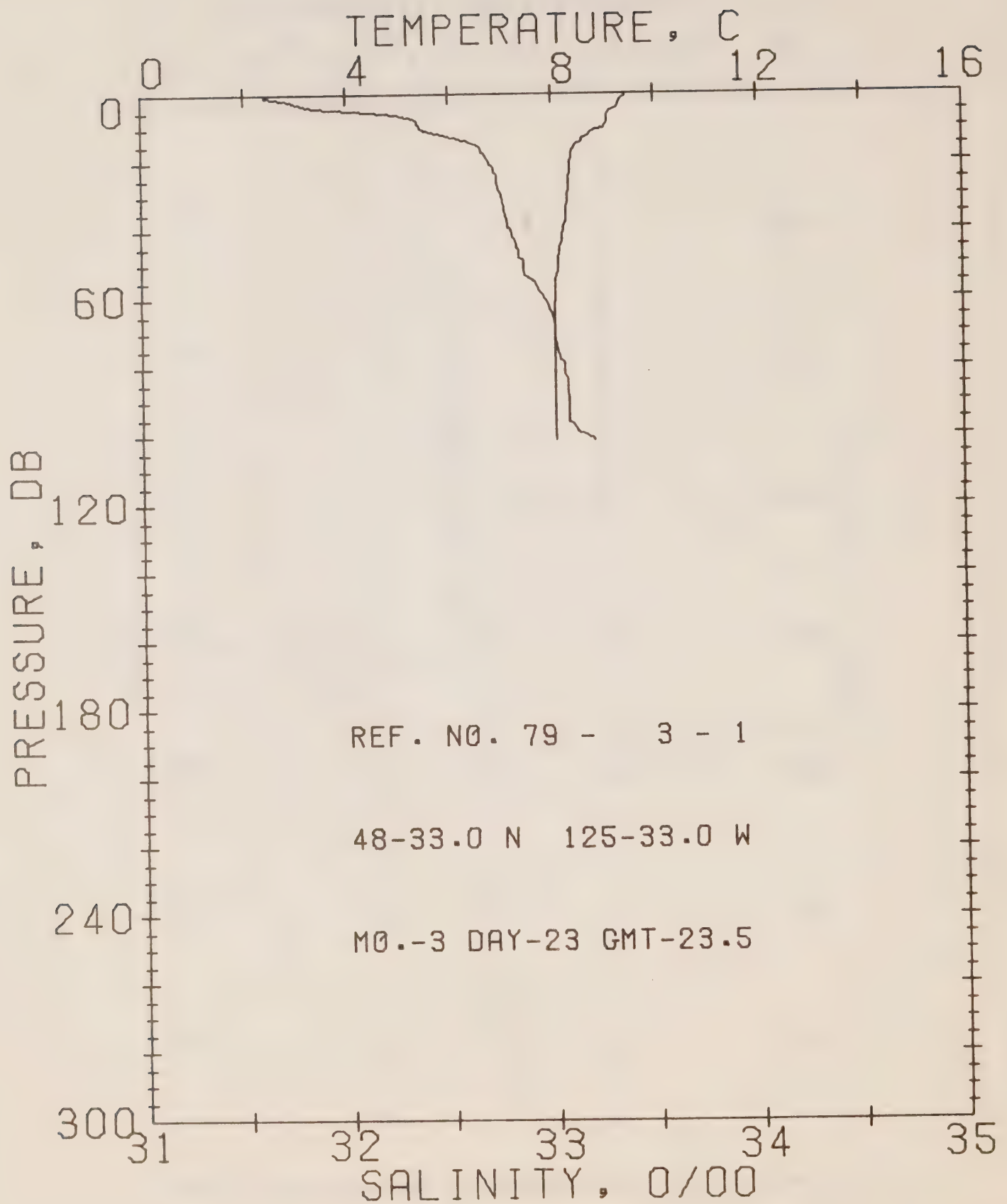


Figure 5. Temperature difference between hydro data and STD.
P-79-3



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 1

DATE 23/ 3/79

POSITION 48-33.0N, 125-33.0W

GMT 23.5

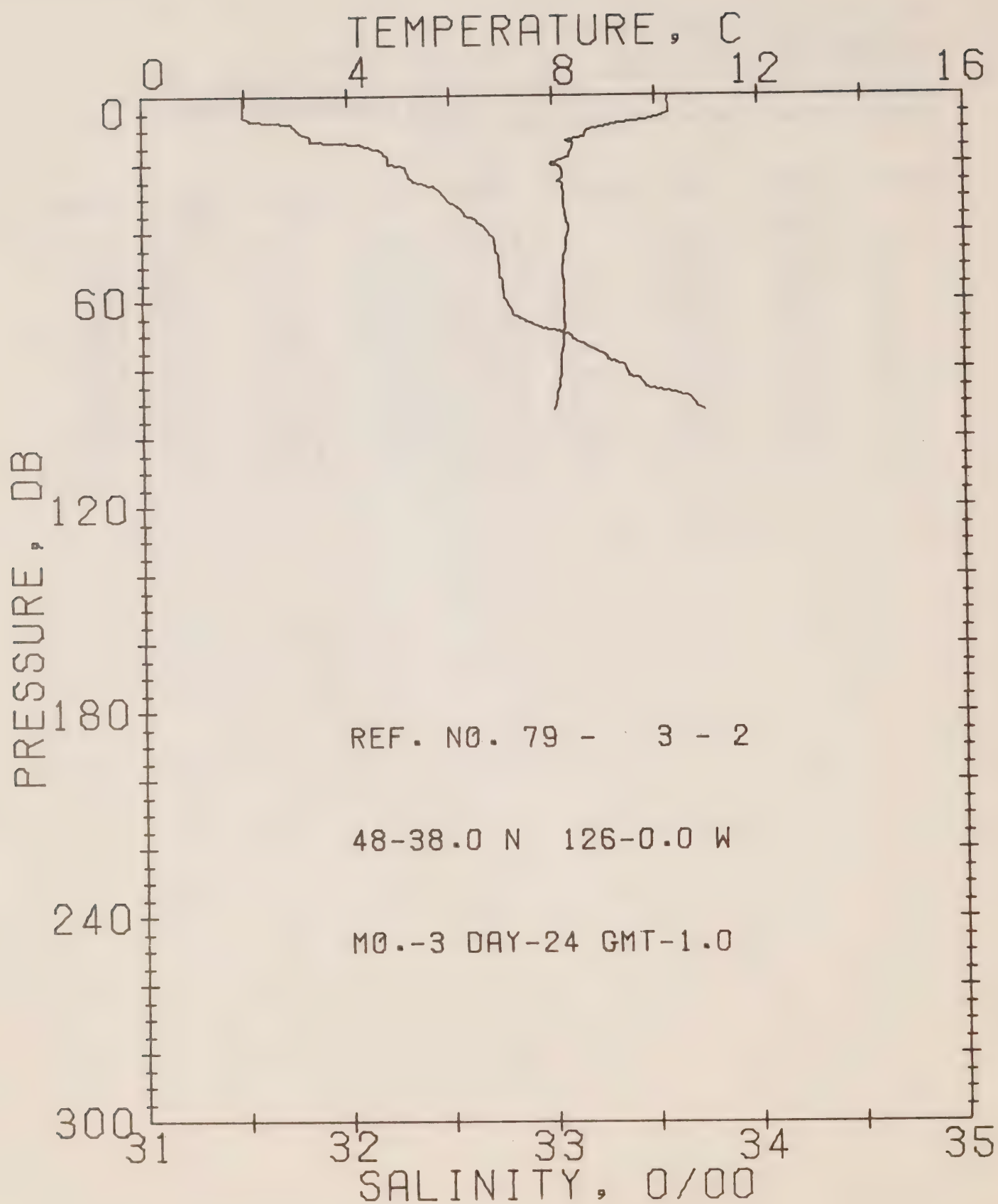
STATION 1

RESULTS OF STP CAST

68 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.43	31.61	0	24.43	351.4	.00	.00	1484.
10	9.05	32.36	10	25.07	290.2	.32	.02	1484.
20	8.38	32.69	20	25.43	256.1	.58	.06	1482.
30	8.31	32.75	30	25.49	250.9	.84	.12	1482.
40	8.23	32.80	40	25.54	246.2	1.09	.21	1482.
50	8.13	32.86	50	25.60	240.5	1.33	.32	1481.
60	8.07	32.96	60	25.69	232.3	1.57	.45	1482.
70	8.06	33.01	70	25.73	228.6	1.80	.61	1482.
80	8.06	33.06	80	25.77	225.1	2.02	.78	1482.
90	8.06	33.08	89	25.78	223.9	2.25	.97	1482.
100	8.06	33.17	99	25.85	217.2	2.47	1.19	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 2

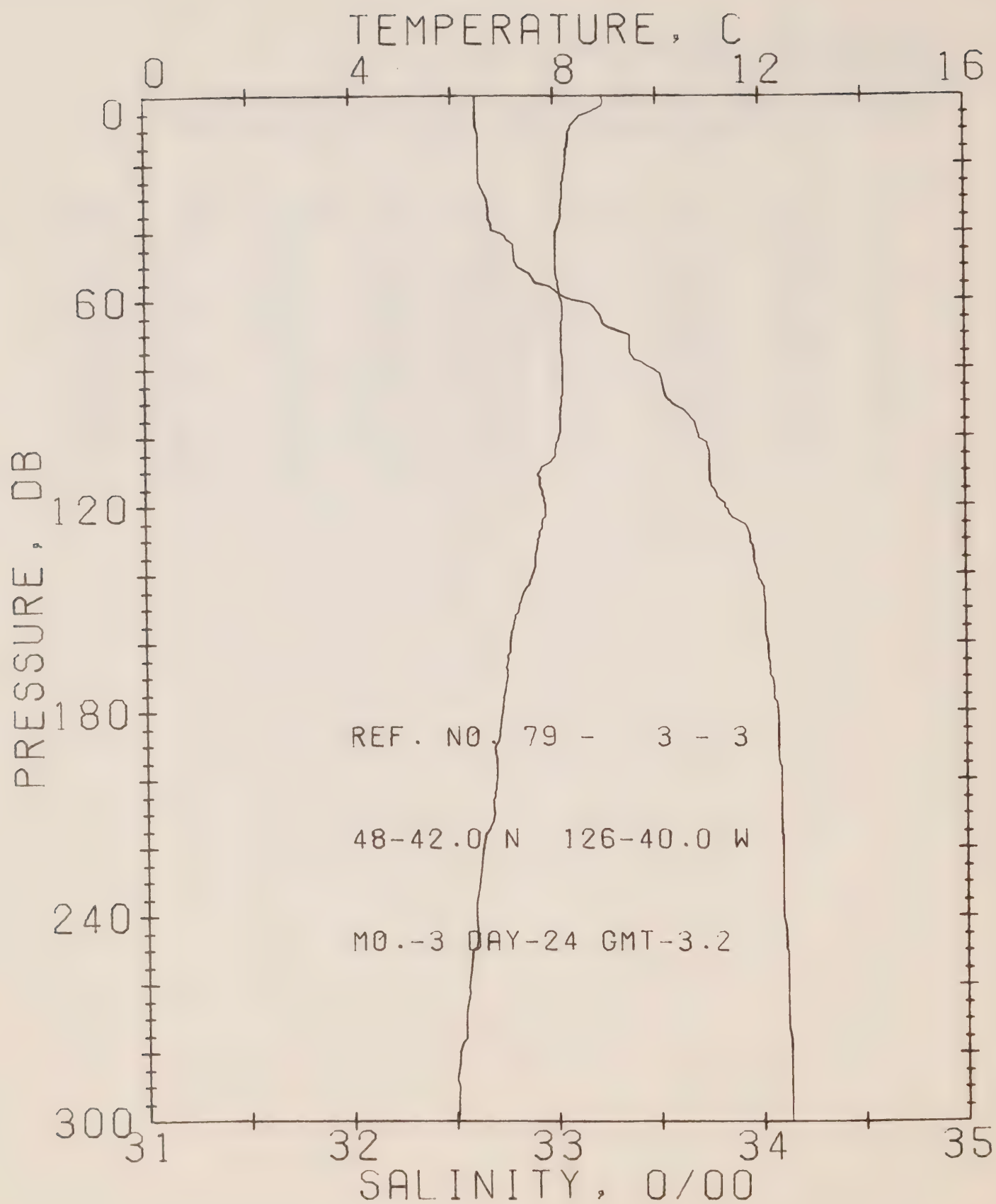
DATE 24/ 3/79

POSITION 48-38.0N, 126- .0W GMT 1.0 STATION 2

RESULTS OF STP CAST 69 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.28	31.49	0	24.19	373.4	.00	.00	1487.
10	8.71	31.75	10	24.65	330.6	.36	.02	1482.
20	7.96	32.20	20	25.11	286.7	.67	.06	1479.
30	8.21	32.47	30	25.29	269.9	.95	.14	1481.
40	8.31	32.68	40	25.43	256.1	1.21	.23	1482.
50	8.19	32.74	50	25.49	250.6	1.46	.34	1482.
60	8.23	32.77	60	25.51	248.6	1.71	.48	1482.
70	8.21	33.08	70	25.76	225.6	1.95	.64	1482.
80	8.15	33.36	80	25.98	204.3	2.17	.81	1483.
90	8.06	33.69	89	26.26	178.7	2.36	.98	1483.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 3

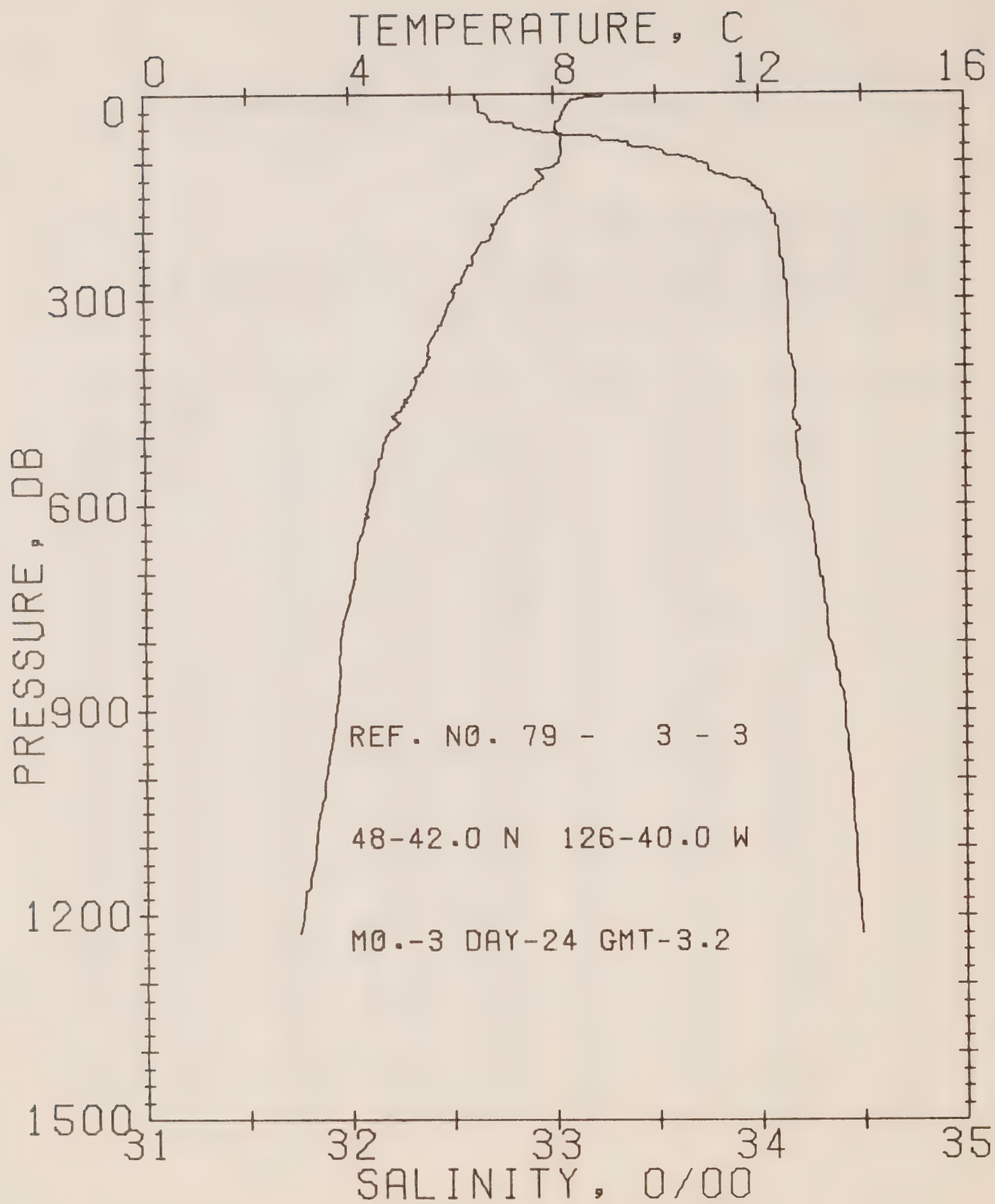
DATE 24/ 3/79

POSITION 48-42.0N, 126-40.0W GMT 3.2 STATION 3

RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.95	32.62	0	25.29	269.3	.00	.00	1483.
10	8.32	32.62	10	25.39	259.9	.27	.01	1481.
20	8.22	32.63	20	25.41	258.3	.52	.05	1481.
30	8.15	32.67	30	25.45	254.5	.78	.12	1481.
40	8.03	32.73	40	25.51	248.6	1.03	.21	1481.
50	8.03	32.82	50	25.58	242.0	1.28	.32	1481.
60	8.13	33.10	60	25.79	222.8	1.51	.45	1482.
70	8.13	33.37	70	26.00	202.9	1.73	.59	1482.
80	8.15	33.48	80	26.08	195.2	1.93	.75	1483.
90	8.14	33.57	89	26.15	188.5	2.12	.91	1483.
100	8.08	33.70	99	26.26	178.2	2.30	1.09	1483.
110	7.71	33.75	109	26.36	169.4	2.47	1.27	1482.
120	7.80	33.83	119	26.41	164.9	2.64	1.47	1483.
130	7.66	33.95	129	26.52	154.2	2.80	1.67	1482.
140	7.54	33.99	139	26.57	149.7	2.95	1.88	1482.
150	7.27	34.02	149	26.63	143.9	3.10	2.10	1481.
160	7.09	34.03	159	26.66	140.9	3.24	2.32	1481.
170	7.05	34.05	169	26.69	139.0	3.38	2.56	1481.
180	6.94	34.07	179	26.72	135.8	3.52	2.80	1481.
190	6.80	34.08	189	26.74	133.8	3.65	3.06	1480.
200	6.82	34.09	199	26.75	133.4	3.79	3.32	1480.
210	6.77	34.09	209	26.76	132.9	3.92	3.60	1480.
220	6.55	34.10	218	26.79	129.4	4.05	3.89	1480.
230	6.47	34.10	228	26.80	128.6	4.18	4.18	1480.
240	6.40	34.10	238	26.81	127.8	4.31	4.49	1479.
250	6.32	34.12	248	26.84	125.4	4.43	4.81	1479.
260	6.25	34.12	258	26.85	124.7	4.56	5.13	1479.
270	6.20	34.12	268	26.85	124.1	4.68	5.47	1479.
280	6.06	34.13	278	26.88	121.7	4.81	5.82	1479.
290	6.06	34.13	288	26.88	121.9	4.93	6.17	1479.
300	5.99	34.13	298	26.89	121.1	5.05	6.53	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 3

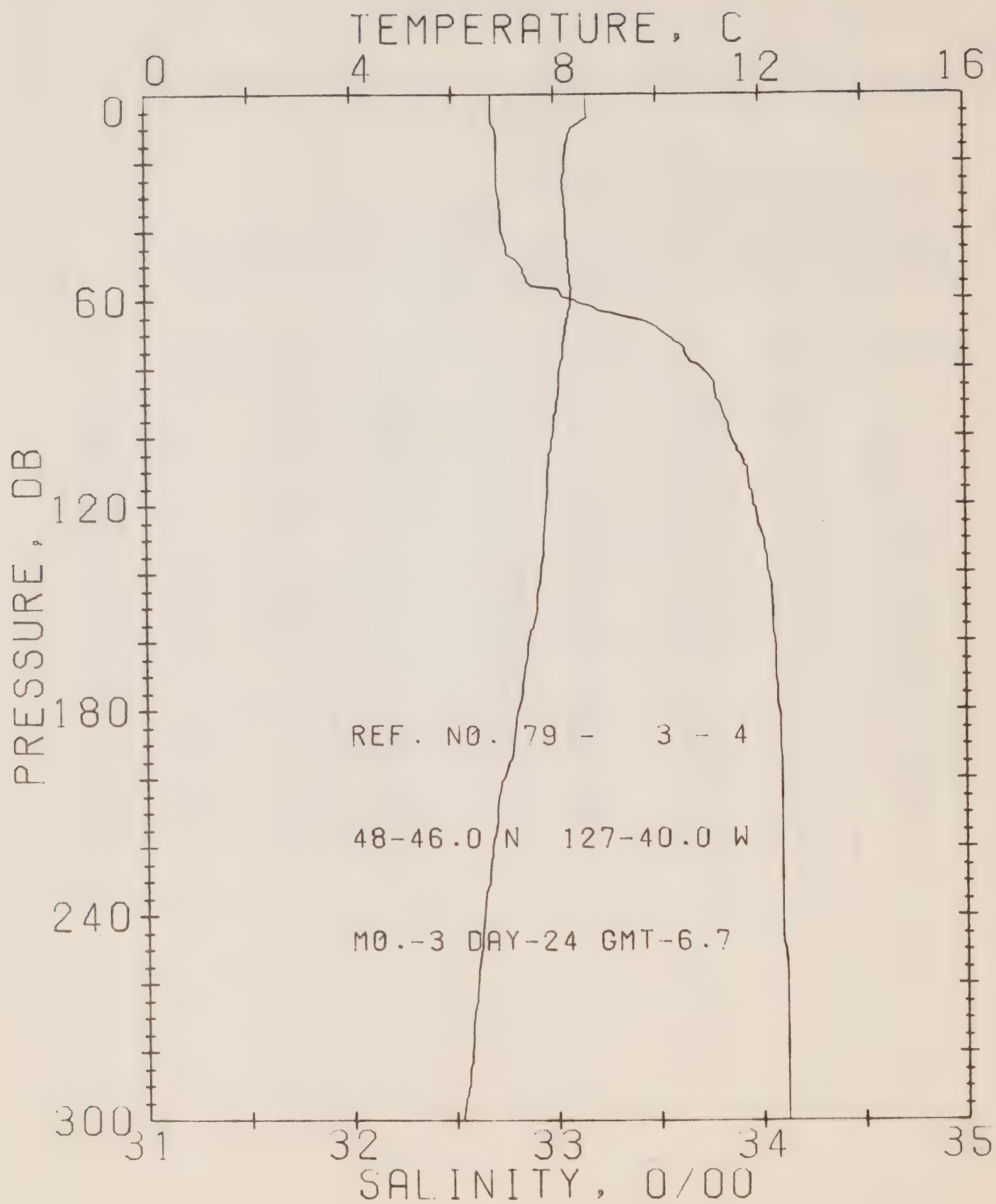
DATE 24/ 3/79

POSITION 48-42.0N, 126-40.0W GMT 3.2 STATION 3

RESULTS OF STP CAST 337 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.95	32.62	0	25.29	269.3	.00	.00	1483.
10	8.32	32.62	10	25.39	259.9	.27	.01	1481.
20	8.22	32.63	20	25.41	258.3	.52	.05	1481.
30	8.15	32.67	30	25.45	254.5	.78	.12	1481.
50	8.03	32.82	50	25.58	242.0	1.28	.32	1481.
75	8.14	33.37	75	26.00	203.1	1.83	.67	1483.
100	8.08	33.70	99	26.26	178.2	2.30	1.09	1483.
125	7.74	33.93	124	26.49	156.7	2.72	1.57	1483.
150	7.27	34.02	149	26.63	143.9	3.10	2.10	1481.
175	6.97	34.06	174	26.70	137.3	3.45	2.68	1481.
200	6.82	34.09	199	26.75	133.4	3.79	3.32	1480.
225	6.51	34.10	223	26.80	129.0	4.12	4.04	1480.
250	6.32	34.12	248	26.84	125.4	4.43	4.81	1479.
300	5.99	34.13	298	26.89	121.1	5.05	6.53	1479.
400	5.46	34.16	397	26.98	113.5	6.22	10.70	1478.
500	4.70	34.17	496	27.07	104.8	7.31	15.69	1477.
600	4.33	34.23	595	27.16	97.2	8.32	21.37	1477.
800	3.79	34.34	793	27.31	84.4	10.13	34.24	1478.
1000	3.49	34.44	990	27.41	75.1	11.72	48.81	1480.
1200	3.04	34.48	1188	27.49	68.4	13.16	64.92	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 4

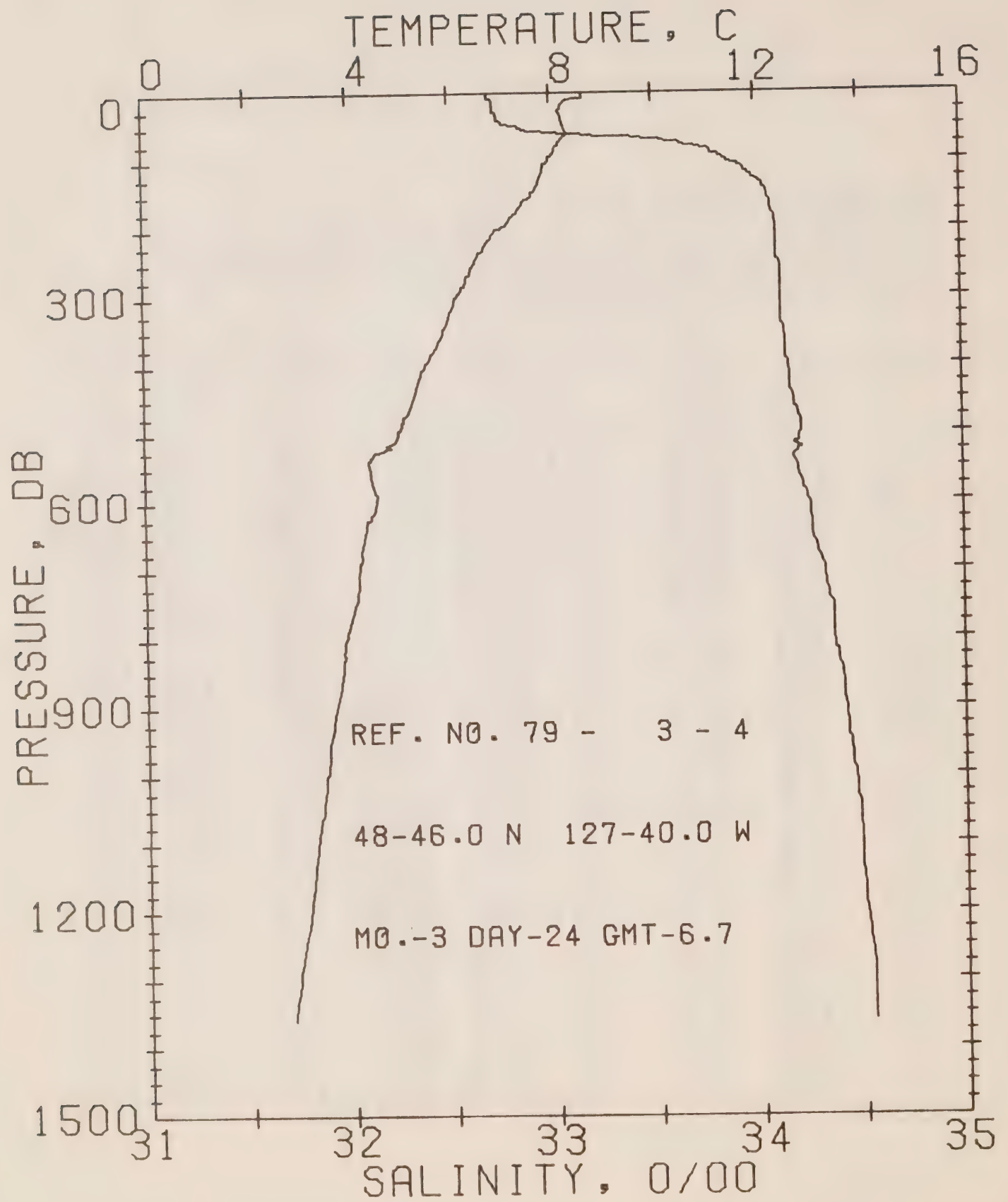
DATE 24/ 3/79

POSITION 48-46.0N, 127-40.0W GMT 6.7 STATION 4

RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.65	32.69	0	25.39	259.7	.00	.00	1482.
10	8.35	32.71	10	25.45	254.1	.26	.01	1481.
20	8.21	32.72	20	25.48	251.5	.51	.05	1481.
30	8.20	32.73	30	25.48	251.1	.76	.12	1481.
40	8.23	32.74	40	25.49	250.6	1.01	.21	1482.
50	8.29	32.84	50	25.56	244.7	1.26	.32	1482.
60	8.33	33.10	60	25.76	225.6	1.50	.45	1483.
70	8.20	33.54	70	26.12	191.3	1.71	.59	1483.
80	8.10	33.72	80	26.28	176.6	1.89	.73	1483.
90	8.04	33.81	89	26.36	169.3	2.06	.88	1483.
100	7.96	33.86	99	26.41	164.6	2.23	1.04	1483.
110	7.85	33.94	109	26.49	157.3	2.39	1.21	1483.
120	7.82	33.97	119	26.51	154.8	2.55	1.40	1483.
130	7.75	34.02	129	26.56	150.3	2.70	1.59	1483.
140	7.71	34.04	139	26.58	148.4	2.85	1.80	1483.
150	7.62	34.06	149	26.61	145.8	3.00	2.01	1483.
160	7.46	34.07	159	26.64	143.2	3.14	2.24	1482.
170	7.35	34.07	169	26.66	141.6	3.28	2.48	1482.
180	7.24	34.09	179	26.69	139.1	3.42	2.73	1482.
190	7.15	34.09	189	26.70	137.7	3.56	2.99	1482.
200	6.96	34.10	199	26.74	134.6	3.70	3.26	1481.
210	6.82	34.10	209	26.76	132.9	3.83	3.54	1481.
220	6.73	34.10	218	26.77	131.8	3.96	3.83	1480.
230	6.67	34.10	228	26.78	131.2	4.10	4.13	1480.
240	6.55	34.10	238	26.79	129.7	4.23	4.45	1480.
250	6.50	34.11	248	26.81	128.5	4.36	4.77	1480.
260	6.42	34.12	258	26.83	126.8	4.48	5.10	1480.
270	6.35	34.12	268	26.84	126.0	4.61	5.44	1480.
280	6.29	34.12	278	26.84	125.4	4.74	5.80	1480.
290	6.23	34.12	288	26.85	124.8	4.86	6.16	1480.
300	6.12	34.12	298	26.86	123.5	4.98	6.53	1479.



OFFSHORE OCEANOGRAPHY GROUP

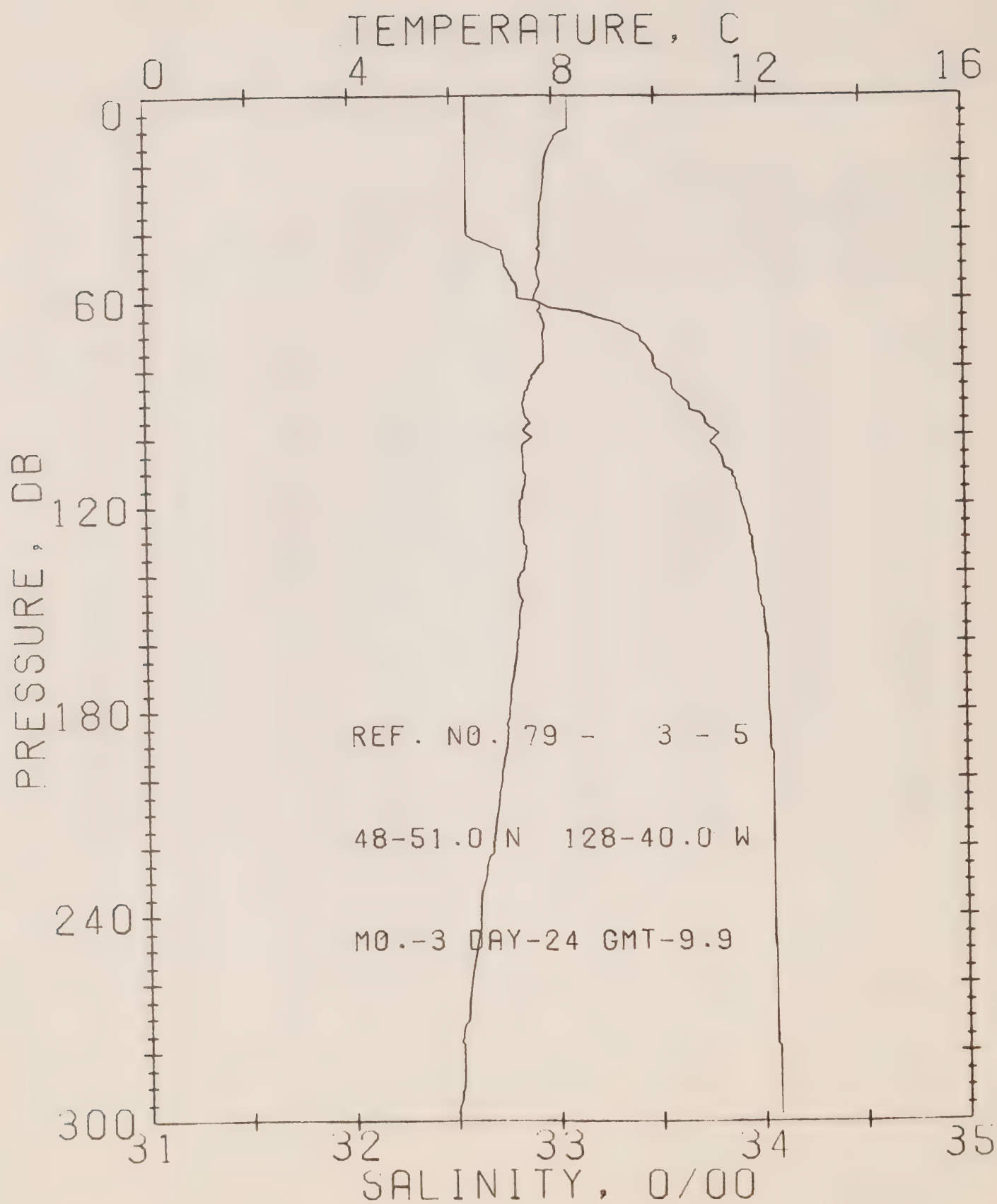
REFERENCE NO. 79- 3- 4 DATE 24/ 3/79

POSITION 48-46.0N, 127-40.0W GMT 6.7 STATION 4

RESULTS OF STP CAST 311 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.65	32.69	0	25.39	259.7	.00	.00	1482.
10	8.35	32.71	10	25.45	254.1	.26	.01	1481.
20	8.21	32.72	20	25.48	251.5	.51	.05	1481.
30	8.20	32.73	30	25.48	251.1	.76	.12	1481.
50	8.29	32.84	50	25.56	244.7	1.26	.32	1482.
75	8.16	33.63	75	26.20	184.1	1.80	.66	1483.
100	7.96	33.86	99	26.41	164.6	2.23	1.04	1483.
125	7.79	33.99	124	26.53	153.0	2.62	1.49	1483.
150	7.62	34.06	149	26.61	145.8	3.00	2.01	1483.
175	7.32	34.08	174	26.67	140.6	3.35	2.61	1482.
200	6.96	34.10	199	26.74	134.6	3.70	3.26	1481.
225	6.69	34.10	223	26.77	131.3	4.03	3.98	1480.
250	6.50	34.11	248	26.81	128.5	4.36	4.77	1480.
300	6.12	34.12	298	26.86	123.5	4.98	6.53	1479.
400	5.49	34.15	397	26.97	114.7	6.18	10.80	1478.
500	4.95	34.21	496	27.08	104.8	7.28	15.83	1478.
600	4.53	34.24	595	27.15	98.3	8.29	21.50	1478.
800	3.90	34.36	793	27.31	84.2	10.10	34.34	1479.
1000	3.48	34.46	990	27.43	73.5	11.67	48.70	1480.
1200	3.13	34.51	1188	27.50	67.6	13.07	64.43	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 5

DATE 24/ 3/79

POSITION 48-51.0N, 128-40.0W

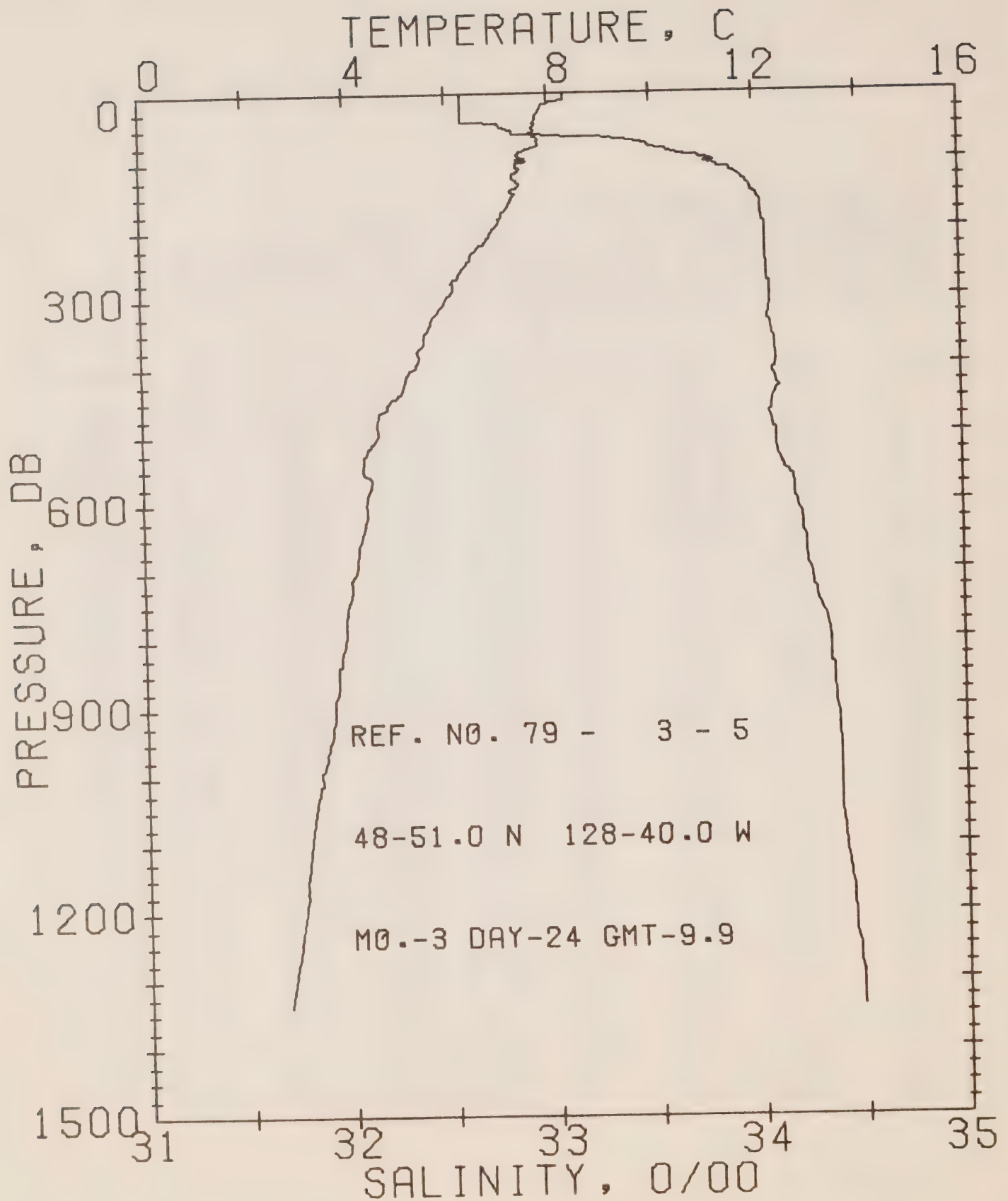
GMT 9.9

STATION 5

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.58	0	25.35	263.2	.00	.00	1481.
10	8.32	32.58	10	25.35	263.3	.26	.01	1481.
20	7.87	32.58	20	25.42	257.3	.52	.05	1480.
30	7.81	32.58	30	25.43	256.5	.78	.12	1480.
40	7.74	32.58	40	25.44	255.7	1.03	.21	1479.
50	7.70	32.77	50	25.59	241.2	1.28	.32	1480.
60	7.64	32.92	60	25.72	229.4	1.52	.46	1480.
70	7.78	33.42	70	26.09	194.3	1.73	.60	1481.
80	7.67	33.50	80	26.17	187.0	1.92	.74	1481.
90	7.40	33.66	89	26.33	171.5	2.10	.90	1480.
100	7.57	33.79	99	26.41	164.4	2.27	1.06	1481.
110	7.38	33.87	109	26.50	156.0	2.43	1.23	1481.
120	7.31	33.92	119	26.55	151.7	2.58	1.41	1481.
130	7.40	33.96	129	26.57	149.9	2.73	1.60	1481.
140	7.30	33.98	139	26.60	147.2	2.88	1.81	1481.
150	7.30	34.01	149	26.62	145.1	3.03	2.02	1481.
160	7.23	34.03	159	26.65	142.8	3.17	2.25	1481.
170	7.14	34.03	169	26.66	141.7	3.31	2.49	1481.
180	7.07	34.03	179	26.67	140.7	3.46	2.74	1481.
190	7.02	34.04	189	26.68	139.7	3.60	3.01	1481.
200	6.91	34.05	199	26.71	137.6	3.73	3.28	1481.
210	6.82	34.05	209	26.72	136.6	3.87	3.57	1481.
220	6.72	34.05	218	26.73	135.3	4.01	3.87	1480.
230	6.56	34.05	228	26.75	133.4	4.14	4.17	1480.
240	6.46	34.05	238	26.77	132.2	4.27	4.49	1480.
250	6.37	34.06	248	26.79	130.5	4.41	4.82	1479.
260	6.25	34.06	258	26.80	129.1	4.53	5.16	1479.
270	6.19	34.06	268	26.81	128.5	4.66	5.51	1479.
280	6.12	34.07	278	26.83	127.0	4.79	5.86	1479.
290	6.10	34.07	288	26.83	126.8	4.92	6.23	1479.
300	5.96	34.07	298	26.85	125.2	5.04	6.61	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 5

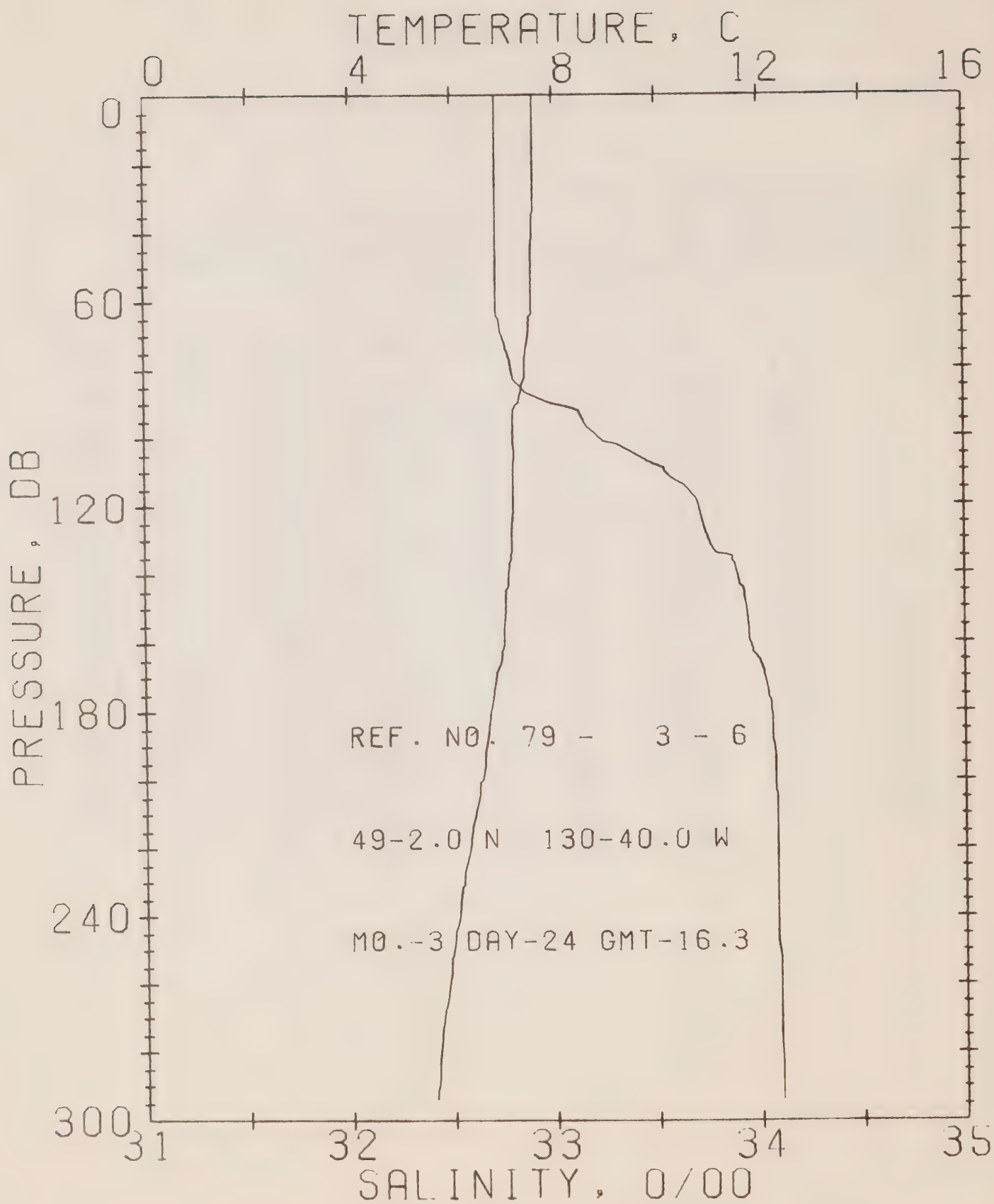
DATE 24/ 3/79

POSITION 48-51.0N, 128-40.0W GMT 9.9 STATION 5

RESULTS OF STP CAST 316 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.32	32.58	0	25.35	263.2	.00	.00	1481.
10	8.32	32.58	10	25.35	263.3	.26	.01	1481.
20	7.87	32.58	20	25.42	257.3	.52	.05	1480.
30	7.81	32.58	30	25.43	256.5	.78	.12	1480.
50	7.70	32.77	50	25.59	241.2	1.28	.32	1480.
75	7.81	33.47	75	26.13	190.6	1.83	.67	1481.
100	7.57	33.79	99	26.41	164.4	2.27	1.06	1481.
125	7.30	33.94	124	26.56	149.9	2.66	1.50	1481.
150	7.30	34.01	149	26.62	145.1	3.03	2.02	1481.
175	7.10	34.03	174	26.66	141.3	3.38	2.62	1481.
200	6.91	34.05	199	26.71	137.6	3.73	3.28	1481.
225	6.60	34.05	223	26.75	133.9	4.07	4.02	1480.
250	6.37	34.06	248	26.79	130.5	4.41	4.82	1479.
300	5.96	34.07	298	26.85	125.2	5.04	6.61	1479.
400	5.35	34.09	397	26.94	117.4	6.25	10.91	1478.
500	4.61	34.09	496	27.02	109.7	7.38	16.09	1476.
600	4.35	34.19	595	27.13	100.2	8.42	21.93	1477.
800	3.90	34.35	793	27.30	85.1	10.29	35.16	1479.
1000	3.38	34.39	990	27.39	77.6	11.91	50.08	1480.
1200	3.03	34.45	1138	27.47	70.6	13.40	66.73	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 6

DATE 24/ 3/79

POSITION 49- 2.0N, 130-40.0W

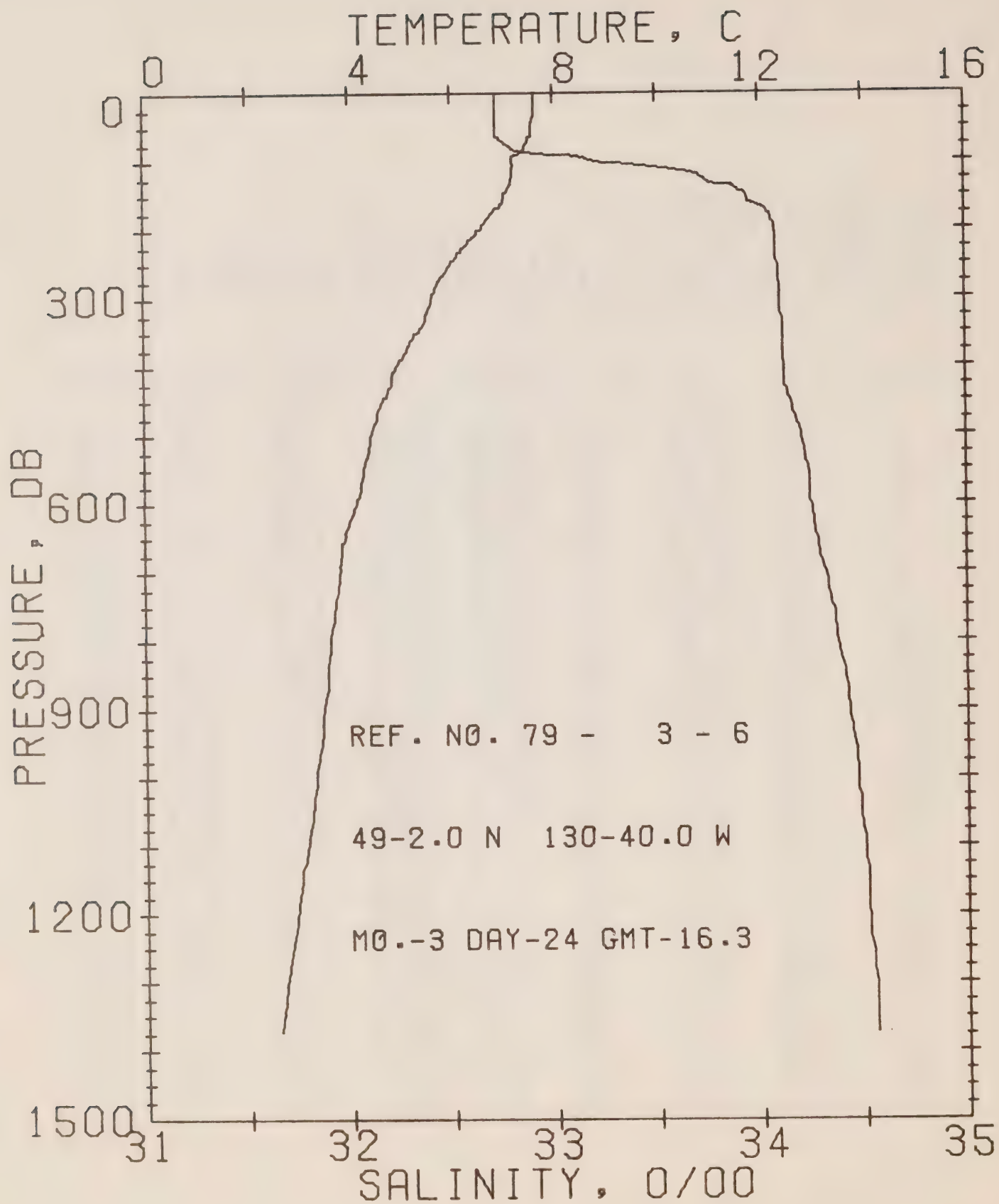
GMT 16.3

STATION 6

RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.64	32.72	0	25.56	243.4	.00	.00	1479.
10	7.64	32.72	10	25.56	243.5	.24	.01	1479.
20	7.64	32.72	20	25.56	243.7	.49	.05	1479.
30	7.63	32.72	30	25.56	243.6	.73	.11	1479.
40	7.59	32.72	40	25.57	243.3	.97	.20	1479.
50	7.58	32.72	50	25.57	243.3	1.22	.31	1479.
60	7.57	32.72	60	25.57	243.3	1.46	.45	1479.
70	7.50	32.75	70	25.60	240.6	1.70	.61	1479.
80	7.44	32.80	80	25.65	236.3	1.94	.79	1479.
90	7.31	32.99	89	25.82	220.2	2.17	.99	1479.
100	7.19	33.22	99	26.01	201.7	2.38	1.19	1479.
110	7.20	33.54	109	26.26	178.1	2.57	1.39	1480.
120	7.19	33.70	119	26.39	165.9	2.74	1.59	1480.
130	7.18	33.75	129	26.43	162.2	2.90	1.80	1480.
140	7.10	33.89	139	26.55	151.0	3.06	2.02	1480.
150	7.03	33.94	149	26.60	146.9	3.21	2.24	1480.
160	7.00	33.95	159	26.62	145.4	3.36	2.47	1480.
170	6.85	34.02	169	26.69	138.4	3.50	2.71	1480.
180	6.73	34.05	179	26.73	134.5	3.63	2.95	1480.
190	6.65	34.07	189	26.75	132.9	3.77	3.20	1480.
200	6.56	34.07	199	26.77	131.5	3.90	3.46	1479.
210	6.41	34.08	209	26.80	129.0	4.03	3.74	1479.
220	6.31	34.08	218	26.81	127.8	4.16	4.02	1479.
230	6.18	34.08	228	26.83	126.3	4.28	4.31	1478.
240	6.09	34.08	238	26.84	125.4	4.41	4.61	1478.
250	5.97	34.09	248	26.86	123.5	4.54	4.92	1478.
260	5.89	34.09	258	26.87	122.3	4.66	5.24	1478.
270	5.77	34.09	268	26.89	120.9	4.78	5.57	1477.
280	5.70	34.10	278	26.90	119.7	4.90	5.91	1477.
290	5.66	34.10	288	26.91	119.1	5.02	6.25	1477.
300	5.61	34.10	298	26.91	118.6	5.14	6.61	1477.



OFFSHORE OCEANOGRAPHY GROUP

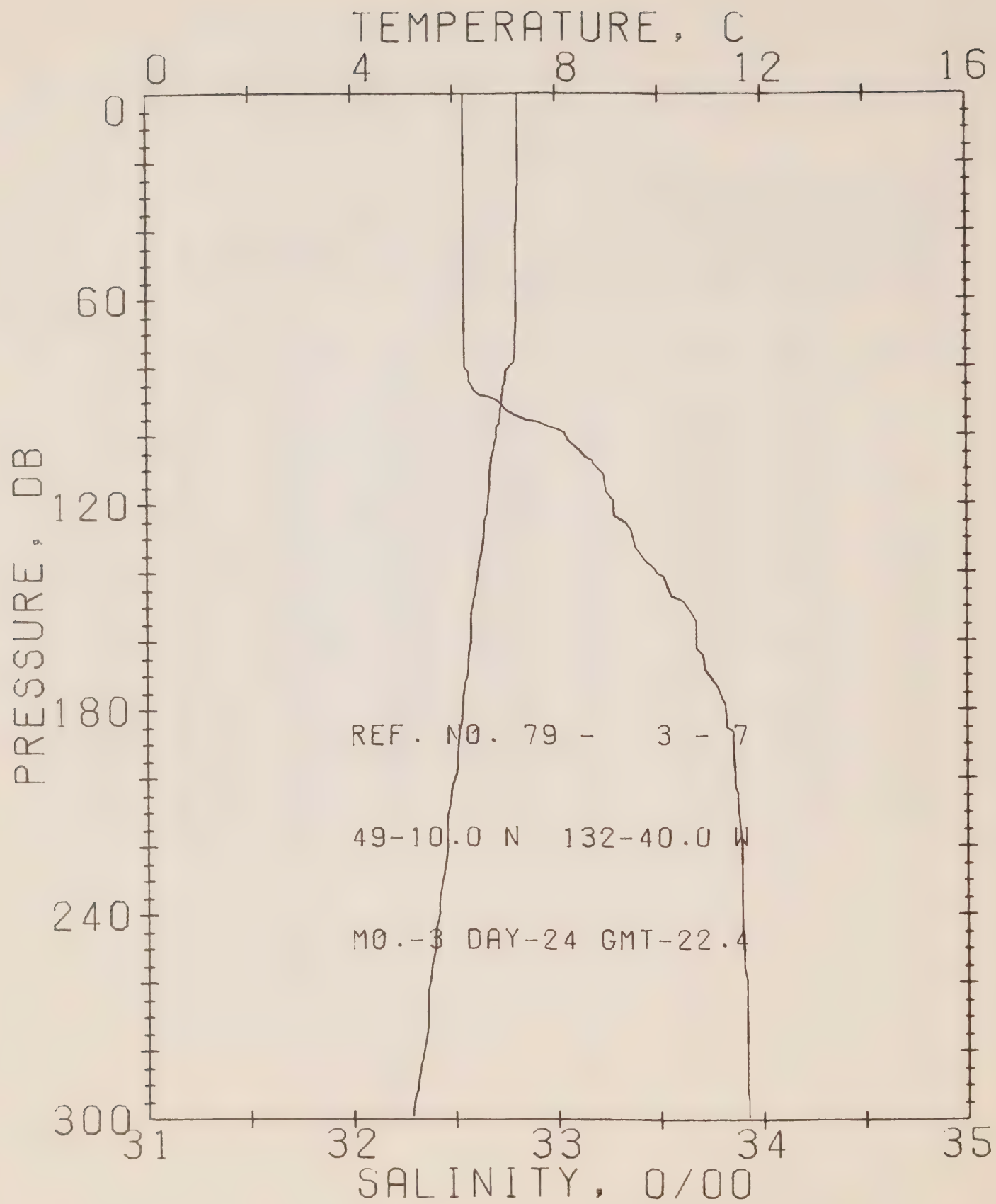
REFERENCE NO. 79- 3- 6 DATE 24/ 3/79

POSITION 49- 2.0N, 130-40.0W GMT 16.3 STATION 6

RESULTS OF STP CAST 255 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.64	32.72	0	25.56	243.4	.00	.00	1479.
10	7.64	32.72	10	25.56	243.5	.24	.01	1479.
20	7.64	32.72	20	25.56	243.7	.49	.05	1479.
30	7.63	32.72	30	25.56	243.6	.73	.11	1479.
50	7.58	32.72	50	25.57	243.3	1.22	.31	1479.
75	7.46	32.78	75	25.63	237.9	1.82	.70	1479.
100	7.19	33.22	99	26.01	201.7	2.38	1.19	1479.
125	7.18	33.72	124	26.41	164.5	2.82	1.70	1480.
150	7.03	33.94	149	26.60	146.9	3.21	2.24	1480.
175	6.79	34.04	174	26.71	136.4	3.57	2.83	1480.
200	6.56	34.07	199	26.77	131.5	3.90	3.46	1479.
225	6.23	34.08	223	26.82	126.9	4.22	4.16	1478.
250	5.97	34.09	248	26.86	123.5	4.54	4.92	1478.
300	5.61	34.10	298	26.91	118.6	5.14	6.61	1477.
400	4.92	34.12	397	27.01	110.0	6.29	10.70	1476.
500	4.41	34.20	496	27.13	99.2	7.34	15.52	1476.
600	4.11	34.24	595	27.20	93.5	8.30	20.91	1476.
800	3.61	34.37	793	27.35	79.9	10.02	33.11	1477.
1000	3.31	34.47	990	27.46	70.8	11.52	46.84	1480.
1200	2.92	34.52	1188	27.53	64.4	12.87	61.95	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 7

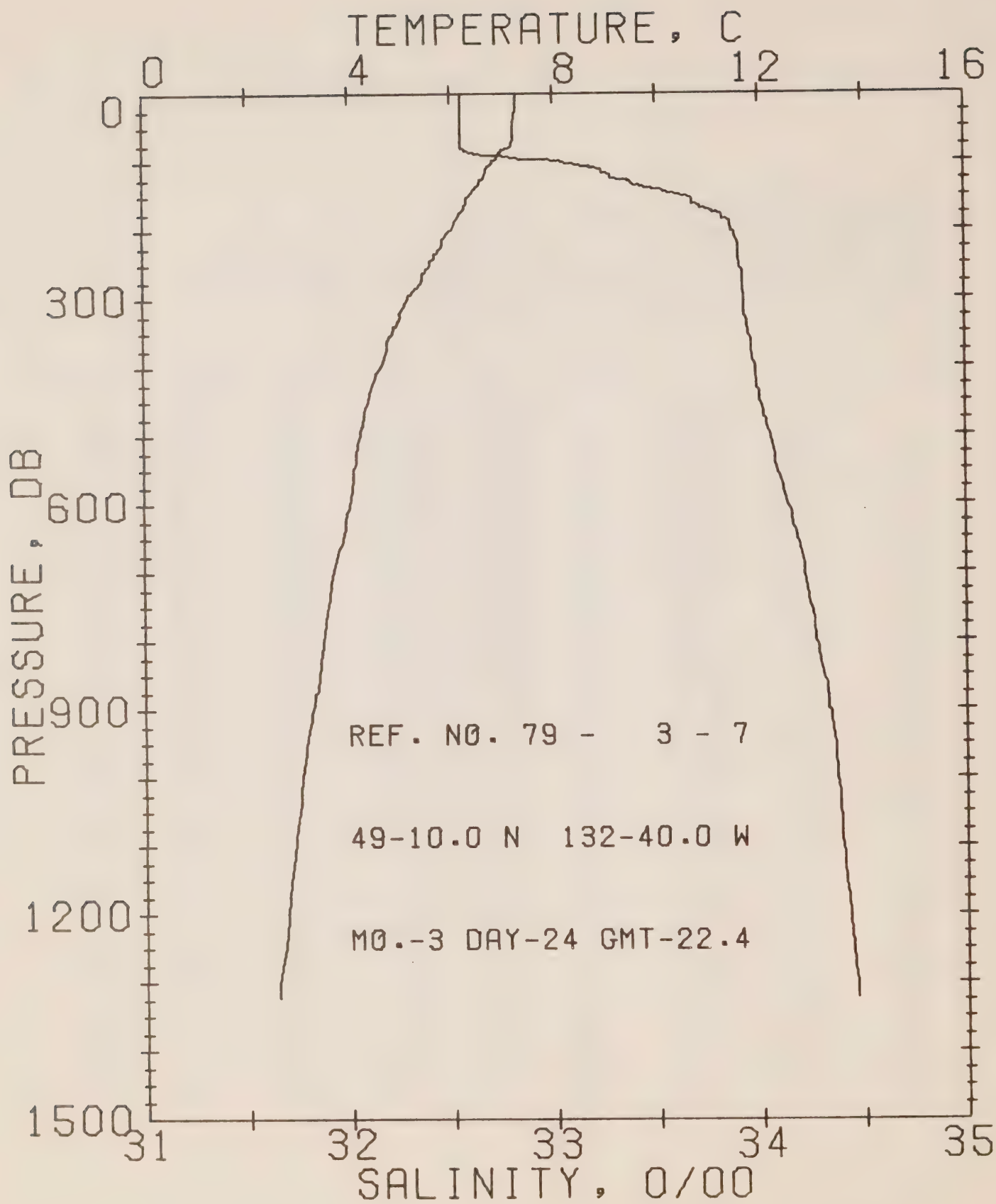
DATE 24/ 3/79

POSITION 49-10.0N, 132-40.0W GMT 22.4 STATION 7

RESULTS OF STP CAST 111 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.29	32.55	0	25.48	251.4	.00	.00	1477.
10	7.29	32.55	10	25.48	251.5	.25	.01	1477.
20	7.28	32.55	20	25.48	251.5	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
40	7.23	32.55	40	25.48	251.2	1.01	.21	1477.
50	7.22	32.55	50	25.49	251.2	1.26	.32	1478.
60	7.22	32.55	60	25.49	251.3	1.51	.46	1478.
70	7.21	32.55	70	25.49	251.4	1.76	.63	1478.
80	7.08	32.55	80	25.50	249.7	2.01	.82	1477.
90	6.93	32.72	89	25.66	235.3	2.26	1.03	1477.
100	6.83	33.05	99	25.93	209.5	2.48	1.25	1477.
110	6.71	33.21	109	26.08	195.9	2.68	1.47	1477.
120	6.67	33.28	119	26.13	190.6	2.88	1.69	1477.
130	6.57	33.38	129	26.22	182.2	3.06	1.93	1477.
140	6.46	33.49	139	26.32	172.6	3.24	2.17	1477.
150	6.35	33.63	149	26.45	160.5	3.41	2.42	1477.
160	6.31	33.68	159	26.49	156.8	3.56	2.67	1477.
170	6.24	33.74	169	26.55	151.6	3.72	2.93	1477.
180	6.15	33.82	179	26.63	144.3	3.87	3.19	1477.
190	6.07	33.86	189	26.67	140.8	4.01	3.46	1477.
200	6.00	33.87	199	26.68	139.3	4.15	3.74	1477.
210	5.86	33.89	209	26.71	136.4	4.29	4.03	1476.
220	5.83	33.90	218	26.73	135.2	4.42	4.32	1477.
230	5.74	33.90	228	26.74	134.3	4.56	4.63	1476.
240	5.67	33.90	238	26.75	133.5	4.69	4.95	1476.
250	5.60	33.91	248	26.76	132.1	4.82	5.29	1476.
260	5.48	33.92	258	26.79	129.9	4.95	5.63	1476.
270	5.44	33.92	268	26.79	129.7	5.08	5.98	1476.
280	5.36	33.92	278	26.80	128.8	5.21	6.34	1476.
290	5.24	33.92	288	26.81	127.5	5.34	6.71	1475.
300	5.13	33.93	298	26.83	125.6	5.47	7.09	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 7

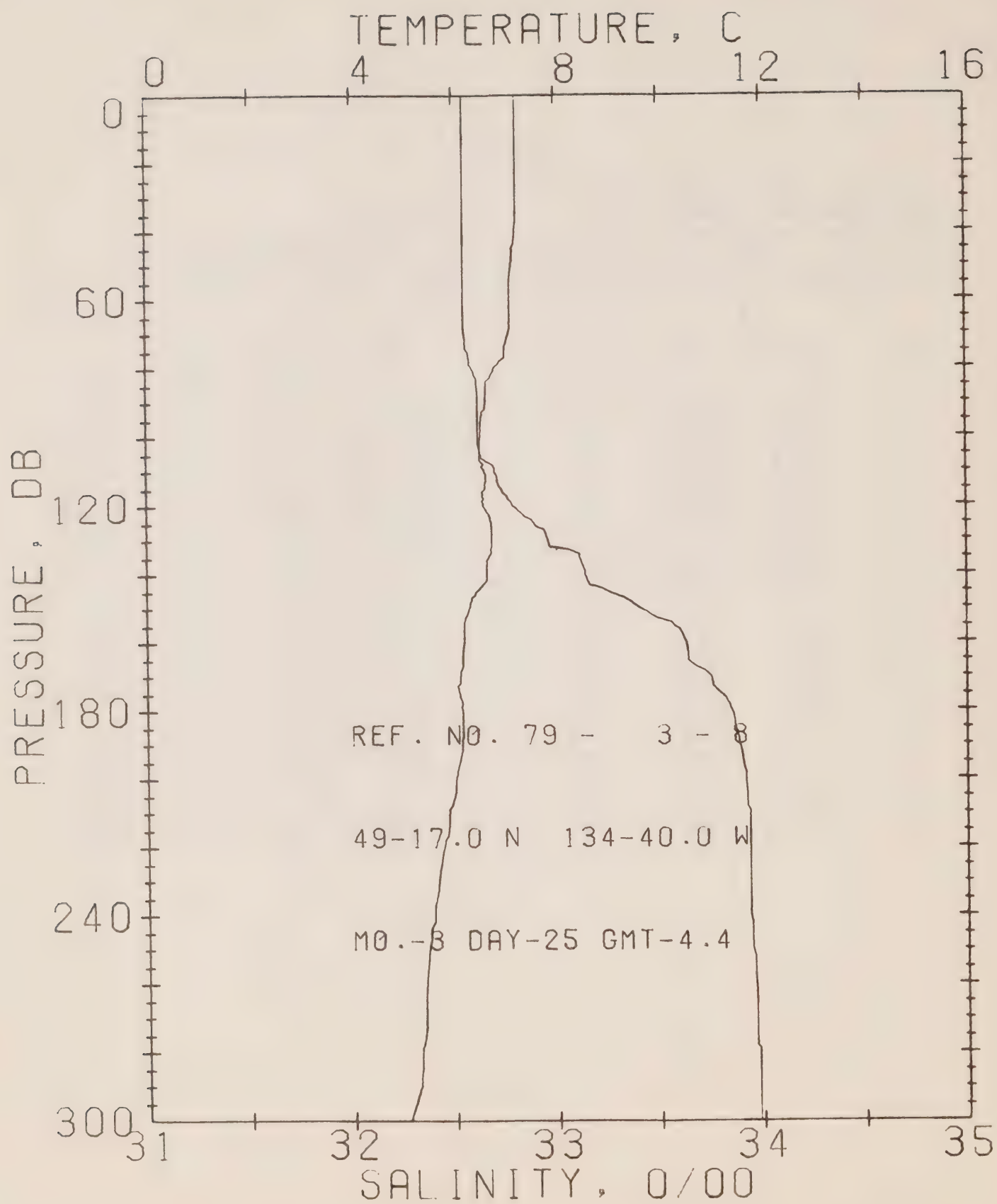
DATE 24/ 3/79

POSITION 49-10.0N, 132-40.0W GMT 22.4 STATION 7

RESULTS OF STP CAST 206 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

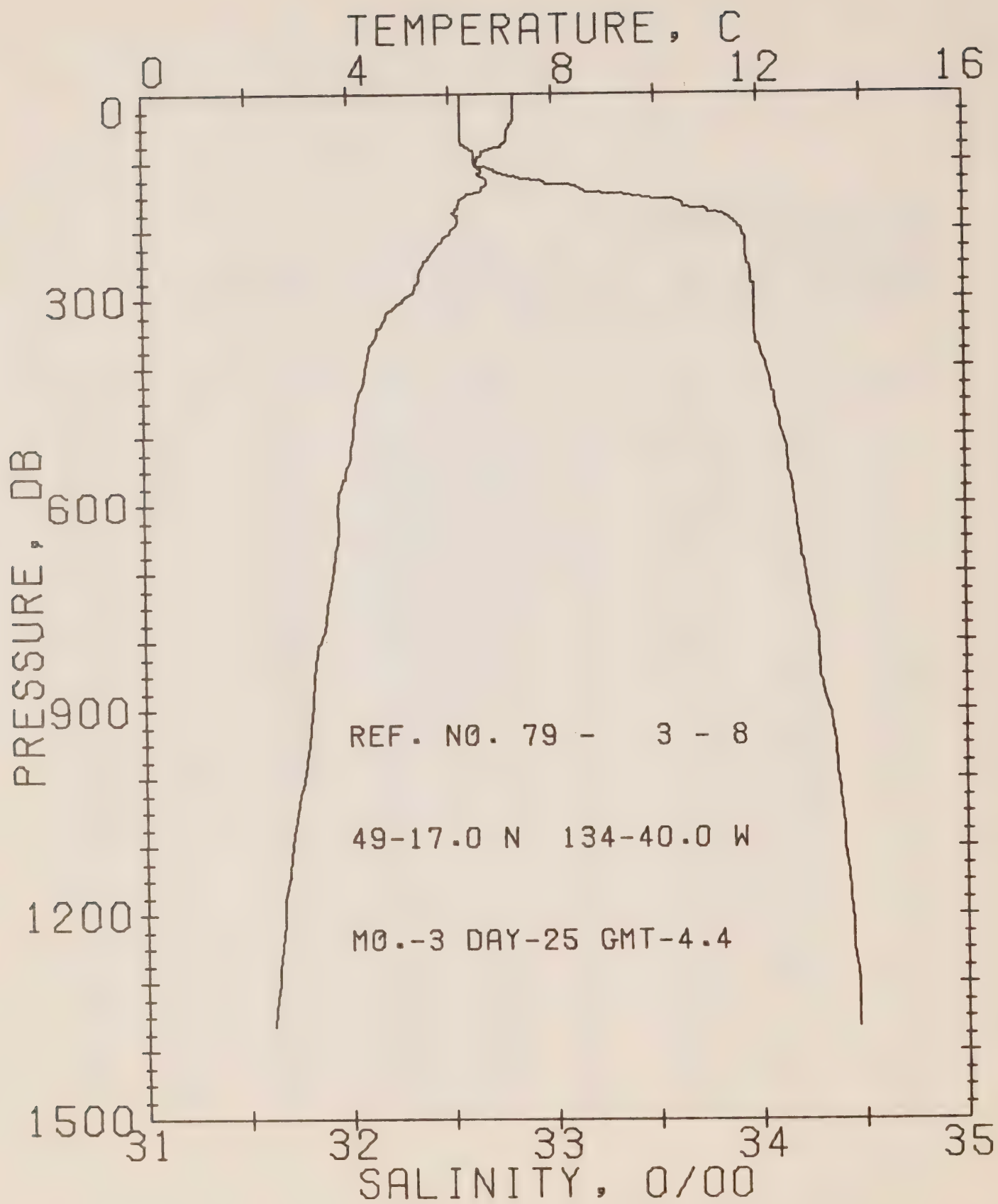
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.29	32.55	0	25.48	251.4	.00	.00	1477.
10	7.29	32.55	10	25.48	251.5	.25	.01	1477.
20	7.28	32.55	20	25.48	251.5	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
50	7.22	32.55	50	25.49	251.2	1.26	.32	1478.
75	7.20	32.55	75	25.49	251.2	1.89	.72	1478.
100	6.83	33.05	99	25.93	209.5	2.48	1.25	1477.
125	6.59	33.34	124	26.19	185.2	2.97	1.81	1477.
150	6.35	33.63	149	26.45	160.5	3.41	2.42	1477.
175	6.17	33.80	174	26.60	146.7	3.79	3.06	1477.
200	6.00	33.87	199	26.68	139.3	4.15	3.74	1477.
225	5.80	33.90	223	26.73	134.9	4.49	4.48	1476.
250	5.60	33.91	248	26.76	132.1	4.82	5.29	1476.
300	5.13	33.93	298	26.83	125.6	5.47	7.09	1475.
400	4.61	33.98	397	26.93	116.9	6.68	11.42	1475.
500	4.21	34.05	496	27.03	108.1	7.81	16.58	1475.
600	4.00	34.13	595	27.12	100.9	8.86	22.44	1476.
800	3.48	34.27	793	27.28	86.1	10.70	35.58	1477.
1000	3.05	34.37	990	27.40	75.2	12.30	50.21	1478.
1200	2.75	34.43	1188	27.47	68.9	13.75	66.38	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 8 DATE 25/ 3/79
 POSITION 49-17.0N, 134-40.0W GMT 4.4 STATION 8
 RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.24	32.55	0	25.48	250.7	.00	.00	1477.
10	7.25	32.55	10	25.48	251.0	.25	.01	1477.
20	7.25	32.55	20	25.48	251.2	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
40	7.23	32.55	40	25.48	251.2	1.00	.20	1477.
50	7.14	32.55	50	25.50	250.1	1.26	.32	1477.
60	7.12	32.55	60	25.50	249.9	1.51	.46	1477.
70	7.09	32.55	70	25.51	249.4	1.76	.63	1477.
80	6.80	32.59	80	25.57	243.2	2.00	.81	1476.
90	6.62	32.62	89	25.62	238.8	2.24	1.02	1476.
100	6.52	32.62	99	25.63	237.7	2.48	1.25	1476.
110	6.62	32.70	109	25.68	233.1	2.72	1.51	1476.
120	6.59	32.79	119	25.76	226.1	2.95	1.78	1476.
130	6.76	32.96	129	25.87	215.7	3.17	2.06	1478.
140	6.64	33.14	139	26.03	200.9	3.37	2.34	1477.
150	6.29	33.41	149	26.28	176.5	3.56	2.62	1477.
160	6.18	33.63	159	26.47	158.9	3.73	2.88	1477.
170	6.11	33.75	169	26.57	149.2	3.88	3.14	1477.
180	6.15	33.86	179	26.65	142.0	4.03	3.40	1477.
190	6.14	33.89	189	26.68	139.1	4.17	3.67	1477.
200	6.01	33.92	199	26.72	135.7	4.31	3.94	1477.
210	5.87	33.94	209	26.75	132.6	4.44	4.22	1477.
220	5.75	33.94	218	26.77	131.3	4.57	4.51	1476.
230	5.65	33.94	228	26.78	130.2	4.71	4.81	1476.
240	5.58	33.94	238	26.79	129.5	4.83	5.12	1476.
250	5.46	33.95	248	26.81	127.2	4.96	5.44	1476.
260	5.40	33.96	258	26.83	125.8	5.09	5.77	1476.
270	5.39	33.97	268	26.84	125.3	5.21	6.11	1476.
280	5.32	33.98	278	26.85	123.8	5.34	6.46	1476.
290	5.27	33.98	288	26.86	123.4	5.46	6.82	1475.
300	5.07	33.98	298	26.88	121.1	5.59	7.19	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 8

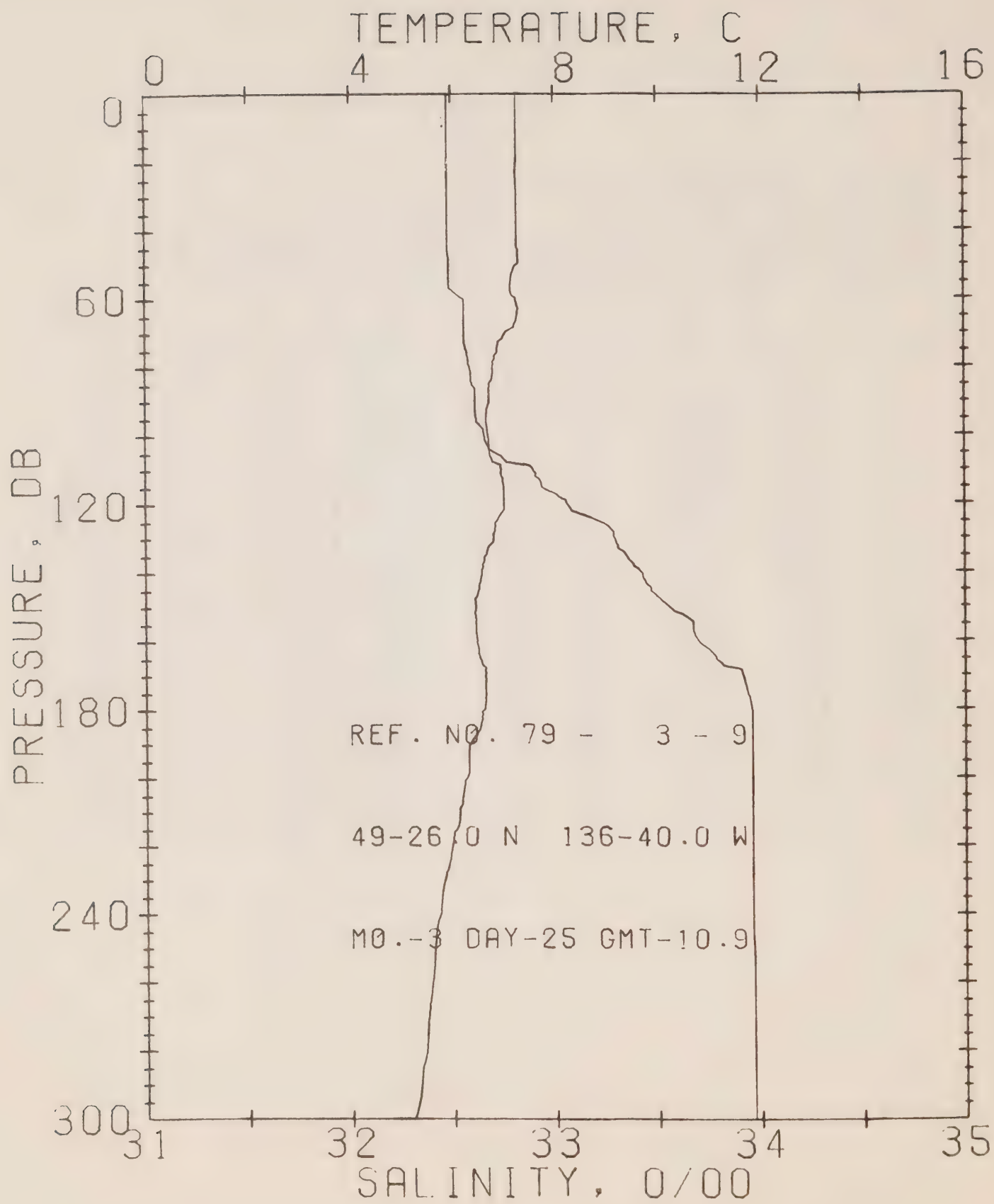
DATE 25/ 3/79

POSITION 49-17.0N, 134-40.0W GMT 4.4 STATION 8

RESULTS OF STP CAST 248 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.24	32.55	0	25.48	250.7	.00	.00	1477.
10	7.25	32.55	10	25.48	251.0	.25	.01	1477.
20	7.25	32.55	20	25.48	251.2	.50	.05	1477.
30	7.25	32.55	30	25.48	251.3	.75	.12	1477.
50	7.14	32.55	50	25.50	250.1	1.26	.32	1477.
75	7.01	32.57	75	25.53	247.3	1.88	.72	1477.
100	6.52	32.62	99	25.63	237.7	2.48	1.25	1476.
125	6.75	32.89	124	25.82	220.7	3.06	1.91	1477.
150	6.29	33.41	149	26.28	176.5	3.56	2.62	1477.
175	6.10	33.80	174	26.62	145.4	3.96	3.27	1477.
200	6.01	33.92	199	26.72	135.7	4.31	3.94	1477.
225	5.69	33.94	223	26.78	130.6	4.64	4.66	1476.
250	5.46	33.95	248	26.81	127.2	4.96	5.44	1476.
300	5.07	33.98	298	26.88	121.1	5.59	7.19	1475.
400	4.32	34.03	397	27.00	109.9	6.74	11.29	1473.
500	4.09	34.11	496	27.09	102.2	7.79	16.12	1474.
600	3.77	34.17	595	27.17	95.5	8.78	21.64	1475.
800	3.40	34.28	793	27.30	84.6	10.60	34.58	1476.
1000	3.06	34.37	990	27.40	75.2	12.19	49.18	1478.
1200	2.67	34.44	1188	27.49	67.4	13.61	65.06	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 9

DATE 25/ 3/79

POSITION 49-26.0N, 136-40.0W

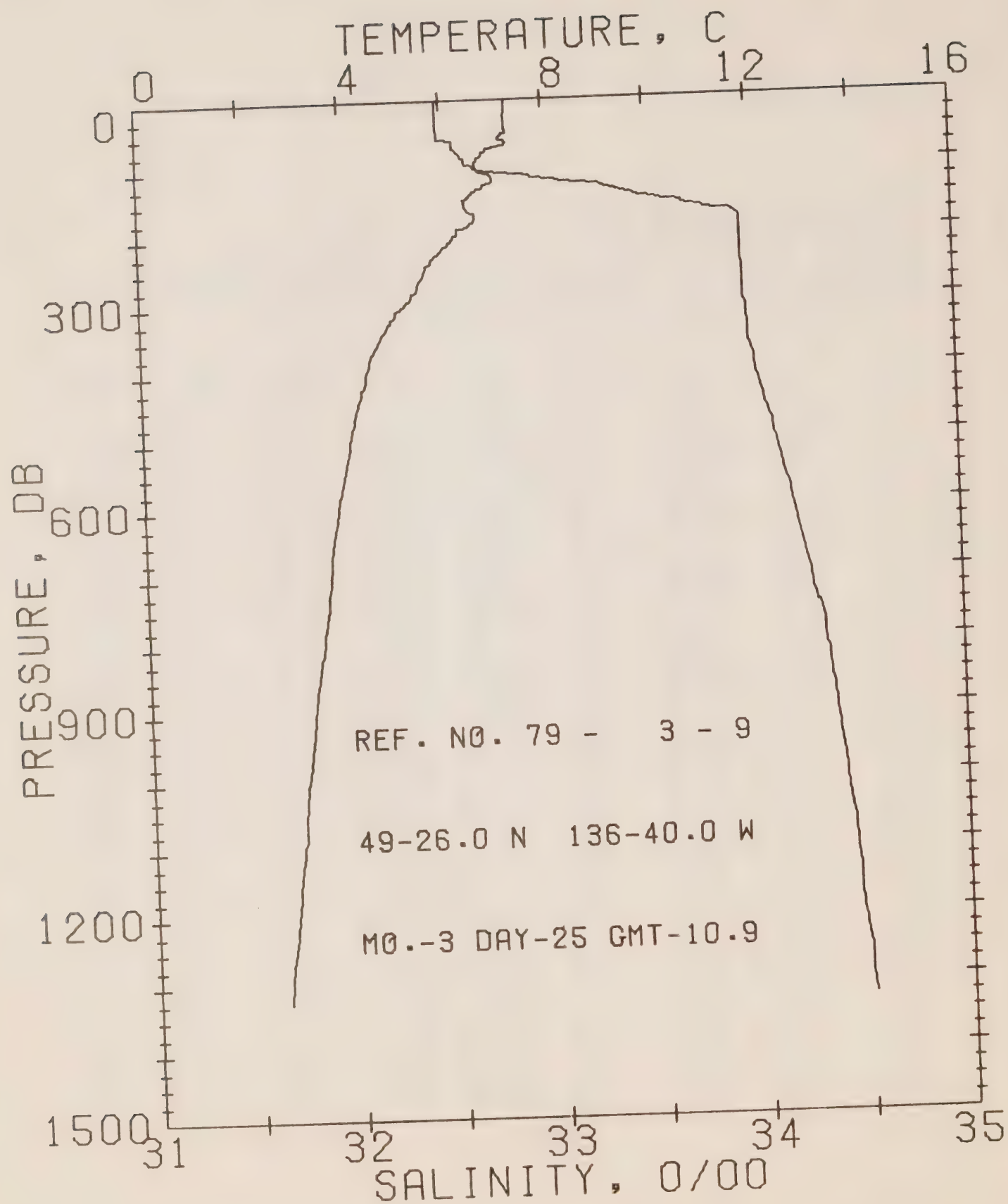
GMT 10.9

STATION 9

RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.48	0	25.42	256.4	.00	.00	1477.
10	7.28	32.48	10	25.42	256.6	.26	.01	1477.
20	7.27	32.48	20	25.42	256.6	.51	.05	1477.
30	7.27	32.48	30	25.42	256.8	.77	.12	1477.
40	7.28	32.48	40	25.42	257.0	1.03	.21	1477.
50	7.30	32.49	50	25.43	256.7	1.28	.33	1478.
60	7.25	32.56	60	25.49	251.0	1.54	.47	1478.
70	7.05	32.56	70	25.52	248.5	1.79	.64	1477.
80	6.80	32.59	80	25.57	243.5	2.03	.82	1476.
90	6.71	32.61	89	25.60	240.7	2.28	1.03	1476.
100	6.70	32.65	99	25.64	237.4	2.52	1.27	1476.
110	6.97	32.89	109	25.79	223.0	2.75	1.51	1478.
120	7.00	33.06	119	25.92	211.3	2.97	1.77	1478.
130	6.80	33.30	129	26.13	191.3	3.17	2.02	1478.
140	6.55	33.43	139	26.27	178.2	3.35	2.28	1477.
150	6.45	33.56	149	26.38	167.4	3.53	2.54	1477.
160	6.47	33.70	159	26.49	157.3	3.69	2.79	1478.
170	6.64	33.92	169	26.64	143.4	3.84	3.04	1479.
180	6.61	33.96	179	26.67	140.1	3.98	3.30	1479.
190	6.34	33.96	189	26.71	136.7	4.12	3.56	1478.
200	6.27	33.96	199	26.72	136.0	4.25	3.83	1478.
210	6.12	33.96	209	26.74	134.2	4.39	4.11	1478.
220	5.96	33.96	218	26.76	132.3	4.52	4.40	1477.
230	5.82	33.96	228	26.78	130.8	4.65	4.70	1477.
240	5.72	33.96	238	26.79	129.7	4.78	5.02	1476.
250	5.62	33.97	248	26.81	128.0	4.91	5.34	1476.
260	5.56	33.97	258	26.82	127.3	5.04	5.67	1476.
270	5.47	33.97	268	26.83	126.3	5.17	6.01	1476.
280	5.43	33.97	278	26.83	125.9	5.29	6.37	1476.
290	5.34	33.97	288	26.84	124.9	5.42	6.73	1476.
300	5.20	33.97	298	26.86	123.4	5.54	7.10	1475.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 9

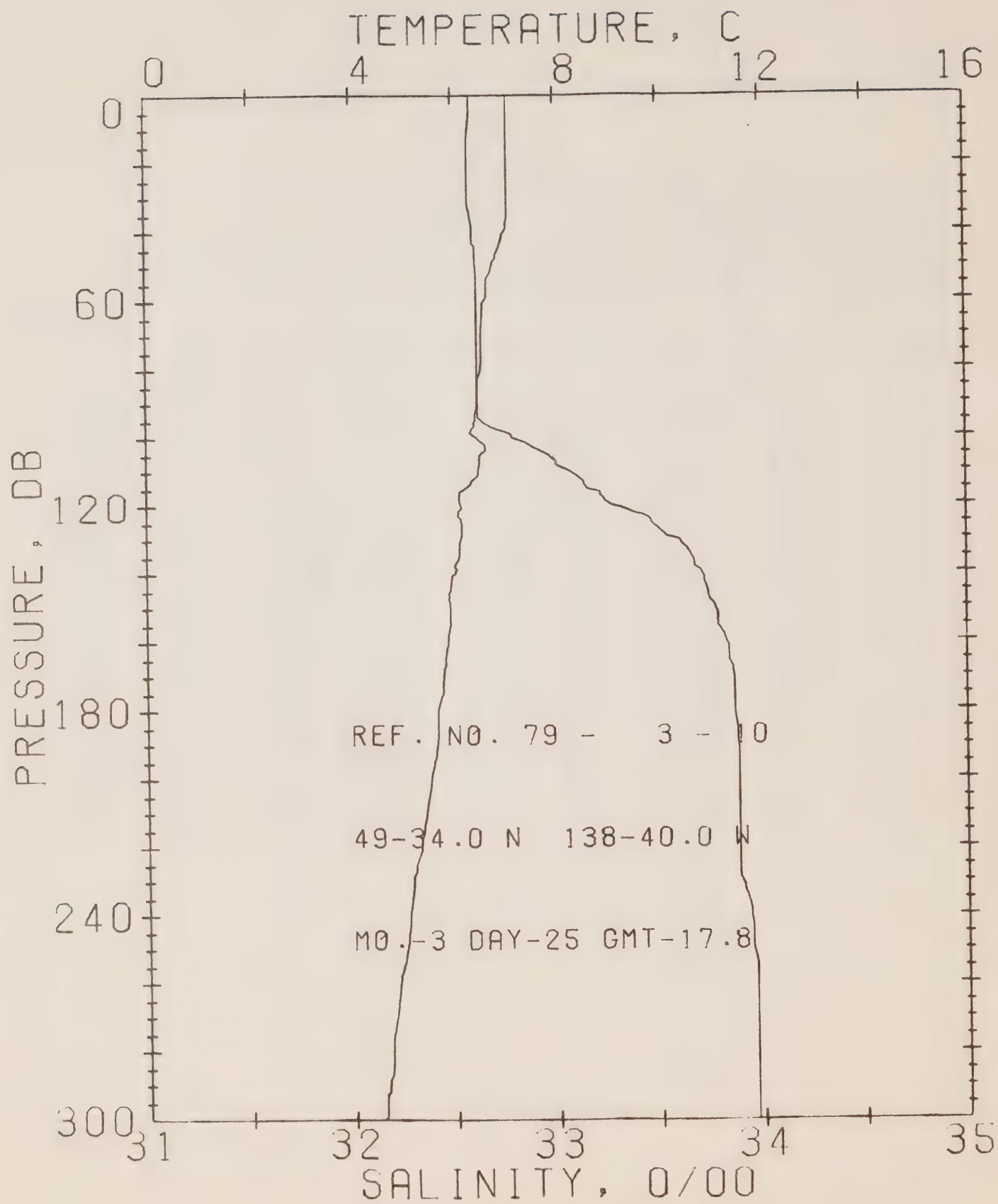
DATE 25/ 3/79

POSITION 49-26.0N, 136-40.0W GMT 10.9 STATION 9

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.27	32.48	0	25.42	256.4	.00	.00	1477.
10	7.28	32.48	10	25.42	256.6	.26	.01	1477.
20	7.27	32.48	20	25.42	256.6	.51	.05	1477.
30	7.27	32.48	30	25.42	256.8	.77	.12	1477.
50	7.30	32.49	50	25.43	256.7	1.28	.33	1478.
75	6.89	32.57	75	25.55	245.7	1.91	.73	1477.
100	6.70	32.65	99	25.64	237.4	2.52	1.27	1476.
125	6.88	33.21	124	26.05	198.2	3.07	1.90	1478.
150	6.45	33.56	149	26.38	167.4	3.53	2.54	1477.
175	6.65	33.94	174	26.65	142.0	3.91	3.17	1479.
200	6.27	33.96	199	26.72	136.0	4.25	3.83	1478.
225	5.90	33.96	223	26.77	131.6	4.59	4.55	1477.
250	5.62	33.97	248	26.81	128.0	4.91	5.34	1476.
300	5.20	33.97	298	26.86	123.4	5.54	7.10	1475.
400	4.43	34.01	397	26.98	112.2	6.71	11.27	1474.
500	4.06	34.10	496	27.09	102.8	7.79	16.19	1474.
600	3.78	34.18	595	27.18	94.6	8.77	21.71	1475.
800	3.42	34.32	793	27.33	81.4	10.53	34.19	1477.
1000	3.03	34.41	990	27.43	72.2	12.06	48.21	1478.
1200	2.75	34.47	1188	27.51	65.8	13.44	63.63	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 10

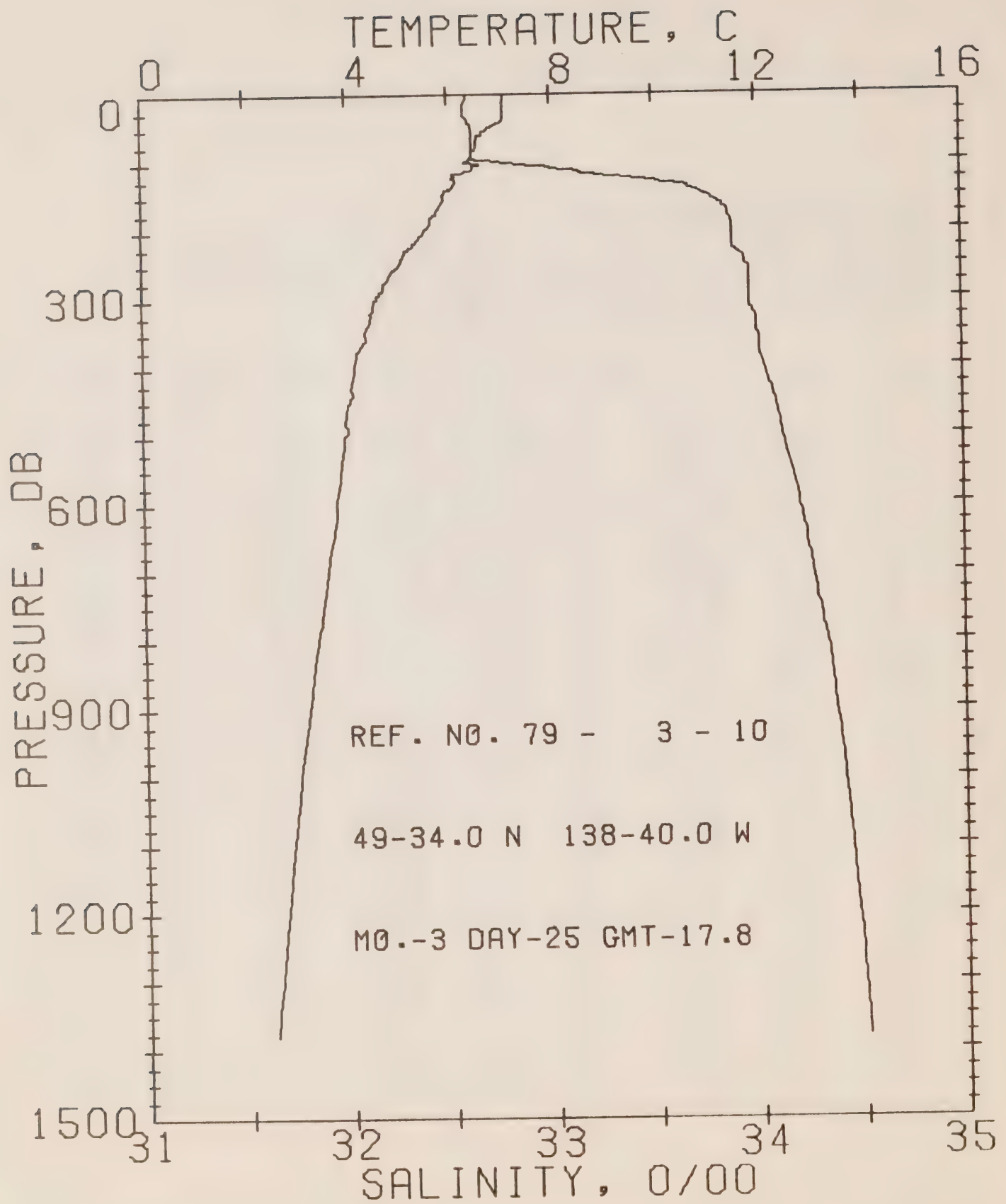
DATE 25/ 3/79

POSITION 49-34.0N, 138-40.0W GMT 17.8 STATION 10

RESULTS OF STP CAST 151 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.10	32.59	0	25.53	246.0	.00	.00	1476.
10	7.10	32.59	10	25.53	246.5	.25	.01	1476.
20	7.10	32.58	20	25.53	247.0	.49	.05	1477.
30	7.10	32.58	30	25.53	247.1	.74	.11	1477.
40	7.04	32.60	40	25.55	245.0	.99	.20	1477.
50	6.79	32.61	50	25.59	240.9	1.23	.31	1476.
60	6.63	32.62	60	25.62	238.5	1.47	.45	1475.
70	6.56	32.62	70	25.63	237.8	1.71	.60	1475.
80	6.54	32.62	80	25.63	237.6	1.94	.79	1475.
90	6.45	32.62	89	25.64	236.7	2.18	.99	1475.
100	6.46	32.79	99	25.77	224.2	2.41	1.22	1476.
110	6.49	33.07	109	25.99	203.9	2.63	1.45	1476.
120	6.13	33.27	119	26.19	184.6	2.82	1.67	1475.
130	6.13	33.60	129	26.45	160.1	2.99	1.89	1476.
140	6.03	33.71	139	26.55	150.8	3.15	2.10	1476.
150	5.93	33.78	149	26.62	144.5	3.30	2.32	1476.
160	5.87	33.83	159	26.67	140.2	3.44	2.55	1476.
170	5.78	33.86	169	26.71	136.6	3.58	2.78	1475.
180	5.66	33.87	179	26.72	134.9	3.71	3.02	1475.
190	5.64	33.89	189	26.74	133.5	3.85	3.28	1475.
200	5.52	33.89	199	26.76	132.0	3.98	3.54	1475.
210	5.42	33.89	209	26.77	130.9	4.11	3.81	1475.
220	5.31	33.89	218	26.78	129.7	4.24	4.10	1474.
230	5.14	33.90	228	26.81	127.2	4.37	4.39	1474.
240	5.08	33.94	238	26.85	123.6	4.49	4.69	1474.
250	5.01	33.95	248	26.87	121.9	4.62	5.00	1474.
260	4.88	33.97	258	26.90	119.3	4.74	5.31	1473.
270	4.80	33.97	268	26.90	118.5	4.86	5.63	1473.
280	4.72	33.97	278	26.91	117.7	4.97	5.96	1473.
290	4.64	33.97	288	26.92	117.0	5.09	6.31	1473.
300	4.54	33.97	298	26.93	115.9	5.21	6.66	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 10

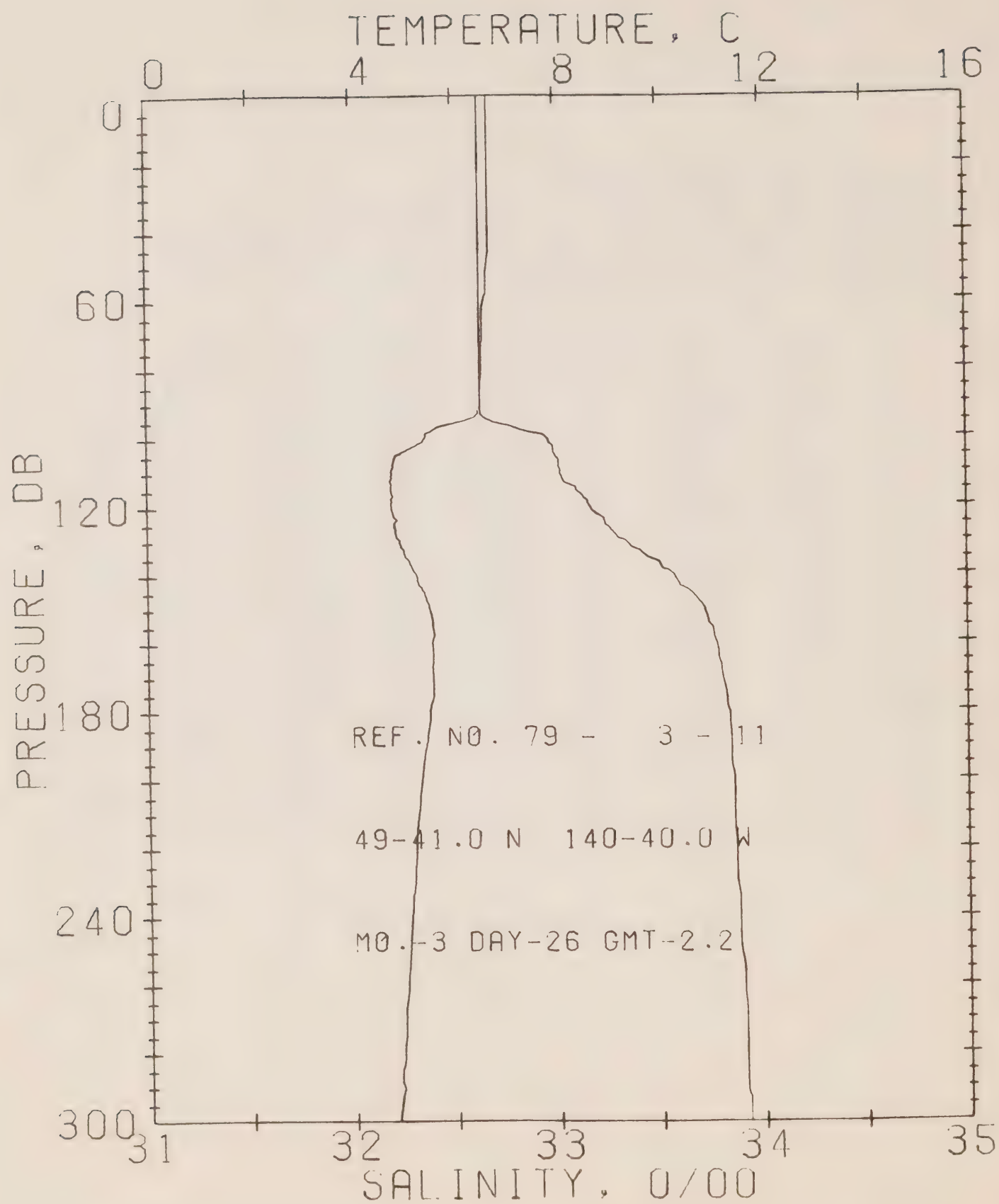
DATE 25/ 3/79

POSITION 49-34.0N, 138-40.0W GMT 17.8 STATION 10

RESULTS OF STP CAST 243 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.10	32.59	0	25.53	246.0	.00	.00	1476.
10	7.10	32.59	10	25.53	246.5	.25	.01	1476.
20	7.10	32.58	20	25.53	247.0	.49	.05	1477.
30	7.10	32.58	30	25.53	247.1	.74	.11	1477.
50	6.79	32.61	50	25.59	240.9	1.23	.31	1476.
75	6.56	32.62	75	25.63	237.9	1.83	.69	1475.
100	6.46	32.79	99	25.77	224.2	2.41	1.22	1476.
125	6.16	33.47	124	26.35	170.1	2.91	1.78	1476.
150	5.93	33.78	149	26.62	144.5	3.30	2.32	1476.
175	5.76	33.87	174	26.71	136.1	3.64	2.90	1475.
200	5.52	33.89	199	26.76	132.0	3.98	3.54	1475.
225	5.21	33.89	223	26.79	128.7	4.31	4.25	1474.
250	5.01	33.95	248	26.87	121.9	4.62	5.00	1474.
300	4.54	33.97	298	26.93	115.9	5.21	6.66	1473.
400	4.13	34.03	397	27.03	107.7	6.33	10.64	1473.
500	3.93	34.12	496	27.12	99.9	7.36	15.38	1474.
600	3.77	34.20	595	27.20	93.0	8.33	20.77	1475.
800	3.36	34.33	793	27.34	80.4	10.06	33.13	1476.
1000	2.98	34.41	990	27.44	71.7	11.58	47.01	1478.
1200	2.71	34.47	1188	27.51	65.3	12.95	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 11

DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W

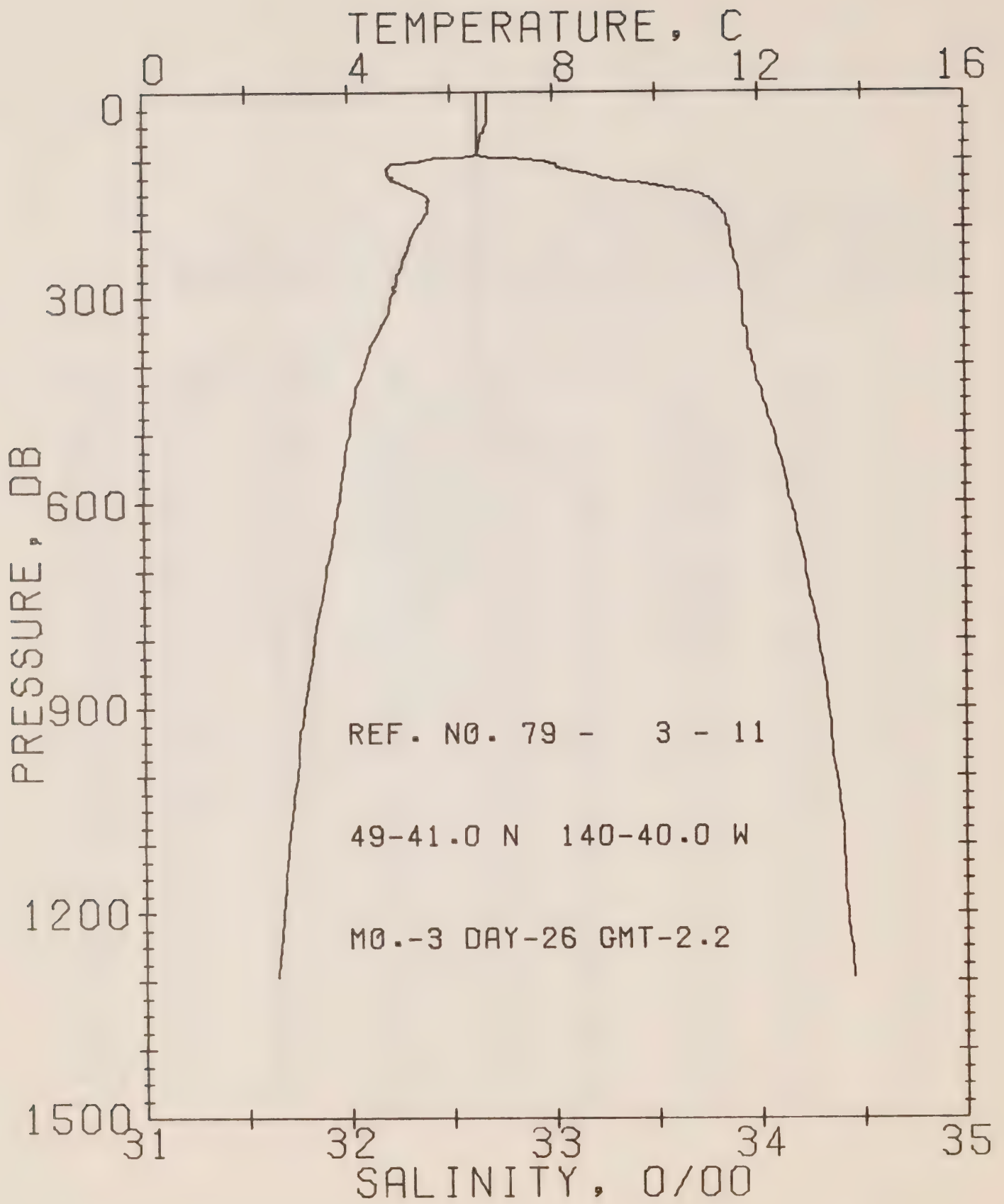
GMT 2.2

STATION 11

RESULTS OF STP CAST 133 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.73	32.63	0	25.61	238.3	.00	.00	1475.
10	6.73	32.63	10	25.61	238.4	.24	.01	1475.
20	6.73	32.63	20	25.61	238.5	.48	.05	1475.
30	6.72	32.63	30	25.61	238.5	.72	.11	1475.
40	6.72	32.63	40	25.61	238.7	.95	.19	1475.
50	6.69	32.63	50	25.62	238.5	1.19	.30	1476.
60	6.62	32.63	60	25.63	237.7	1.43	.44	1475.
70	6.59	32.63	70	25.63	237.4	1.67	.59	1475.
80	6.55	32.63	79	25.64	237.1	1.91	.78	1475.
90	6.53	32.63	89	25.64	236.9	2.14	.98	1476.
100	5.43	32.96	99	26.03	199.3	2.37	1.20	1472.
110	4.78	33.02	109	26.16	187.8	2.56	1.40	1469.
120	4.78	33.16	119	26.27	177.4	2.74	1.62	1470.
130	4.93	33.34	129	26.39	165.6	2.91	1.84	1471.
140	5.25	33.57	139	26.54	152.1	3.07	2.05	1472.
150	5.51	33.72	149	26.62	144.2	3.22	2.27	1474.
160	5.55	33.78	159	26.67	140.1	3.36	2.50	1474.
170	5.56	33.81	169	26.69	138.1	3.50	2.73	1474.
180	5.50	33.84	179	26.72	135.3	3.64	2.98	1474.
190	5.43	33.85	189	26.74	133.8	3.77	3.23	1474.
200	5.33	33.86	199	26.76	132.0	3.90	3.49	1474.
210	5.25	33.86	209	26.77	131.2	4.04	3.77	1474.
220	5.19	33.87	218	26.78	129.9	4.17	4.05	1474.
230	5.16	33.87	228	26.79	129.4	4.30	4.35	1474.
240	5.10	33.88	238	26.80	128.3	4.43	4.66	1474.
250	5.06	33.89	248	26.81	127.4	4.55	4.98	1474.
260	5.02	33.90	258	26.82	126.1	4.68	5.31	1474.
270	4.97	33.91	268	26.84	124.8	4.81	5.65	1474.
280	4.94	33.91	278	26.84	124.7	4.93	6.00	1474.
290	4.91	33.91	288	26.84	124.4	5.05	6.36	1474.
300	4.84	33.92	298	26.86	123.0	5.18	6.73	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 11

DATE 26/ 3/79

POSITION 49-41.0N, 140-40.0W

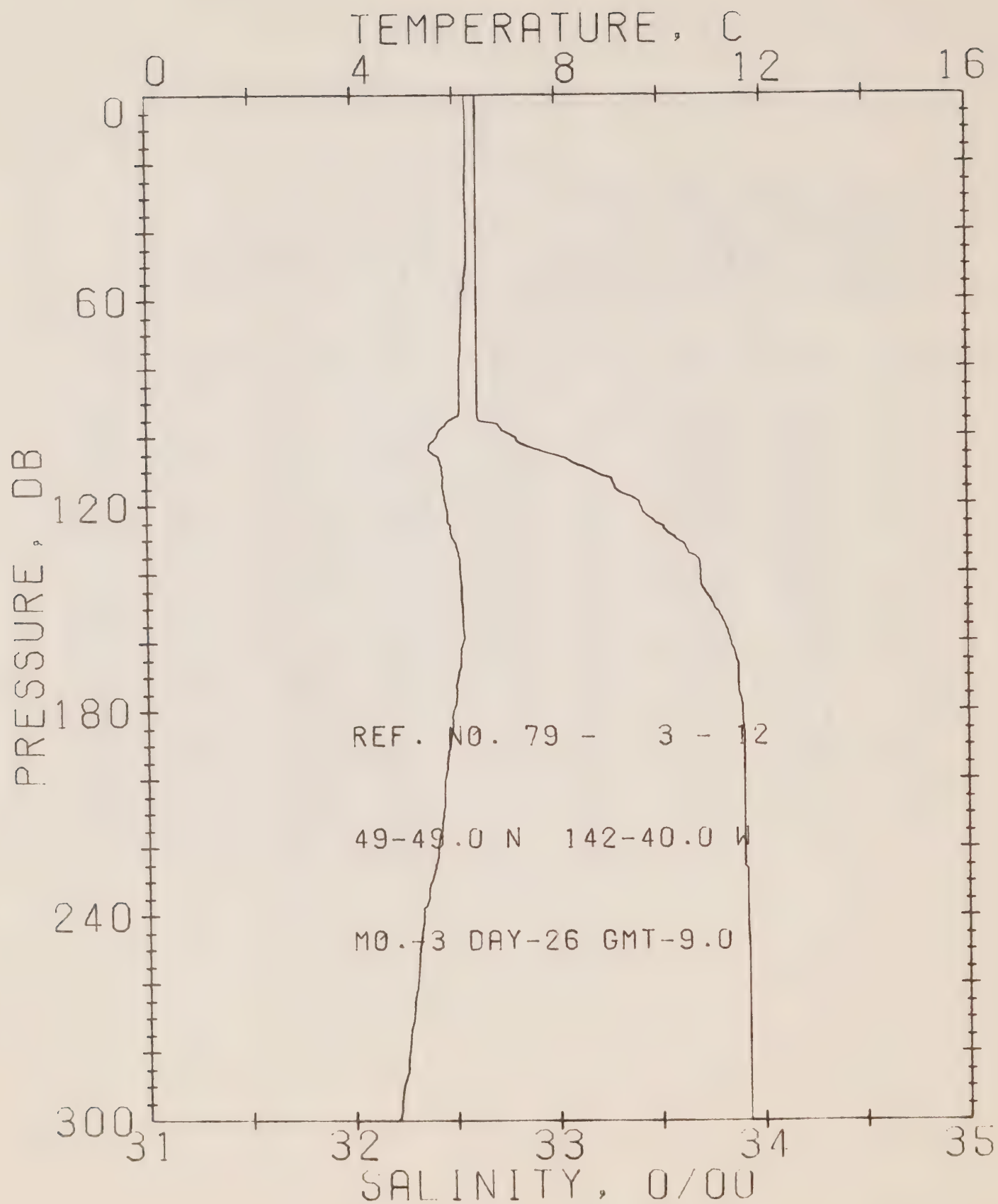
GMT 2.2

STATION 11

RESULTS OF STP CAST 231 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.73	32.63	0	25.61	238.3	.00	.00	1475.
10	6.73	32.63	10	25.61	238.4	.24	.01	1475.
20	6.73	32.63	20	25.61	238.5	.48	.05	1475.
30	6.72	32.63	30	25.61	238.5	.72	.11	1475.
50	6.69	32.63	50	25.62	238.5	1.19	.30	1476.
75	6.56	32.63	75	25.64	237.2	1.79	.68	1475.
100	5.43	32.96	99	26.03	199.3	2.37	1.20	1472.
125	4.84	33.24	124	26.32	172.1	2.83	1.73	1470.
150	5.51	33.72	149	26.62	144.2	3.22	2.27	1474.
175	5.56	33.83	174	26.70	136.9	3.57	2.85	1475.
200	5.33	33.86	199	26.76	132.0	3.90	3.49	1474.
225	5.18	33.87	223	26.78	129.9	4.23	4.20	1474.
250	5.06	33.89	248	26.81	127.4	4.55	4.98	1474.
300	4.84	33.92	298	26.86	123.0	5.18	6.73	1474.
400	4.32	33.98	397	26.96	114.0	6.37	10.97	1473.
500	4.01	34.07	496	27.07	104.3	7.46	15.96	1474.
600	3.79	34.15	595	27.15	97.1	8.46	21.59	1475.
800	3.29	34.28	793	27.31	83.1	10.26	34.36	1476.
1000	2.95	34.37	990	27.41	74.3	11.83	48.72	1478.
1200	2.67	34.42	1198	27.47	68.7	13.25	64.63	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 12

DATE 26/ 3/79

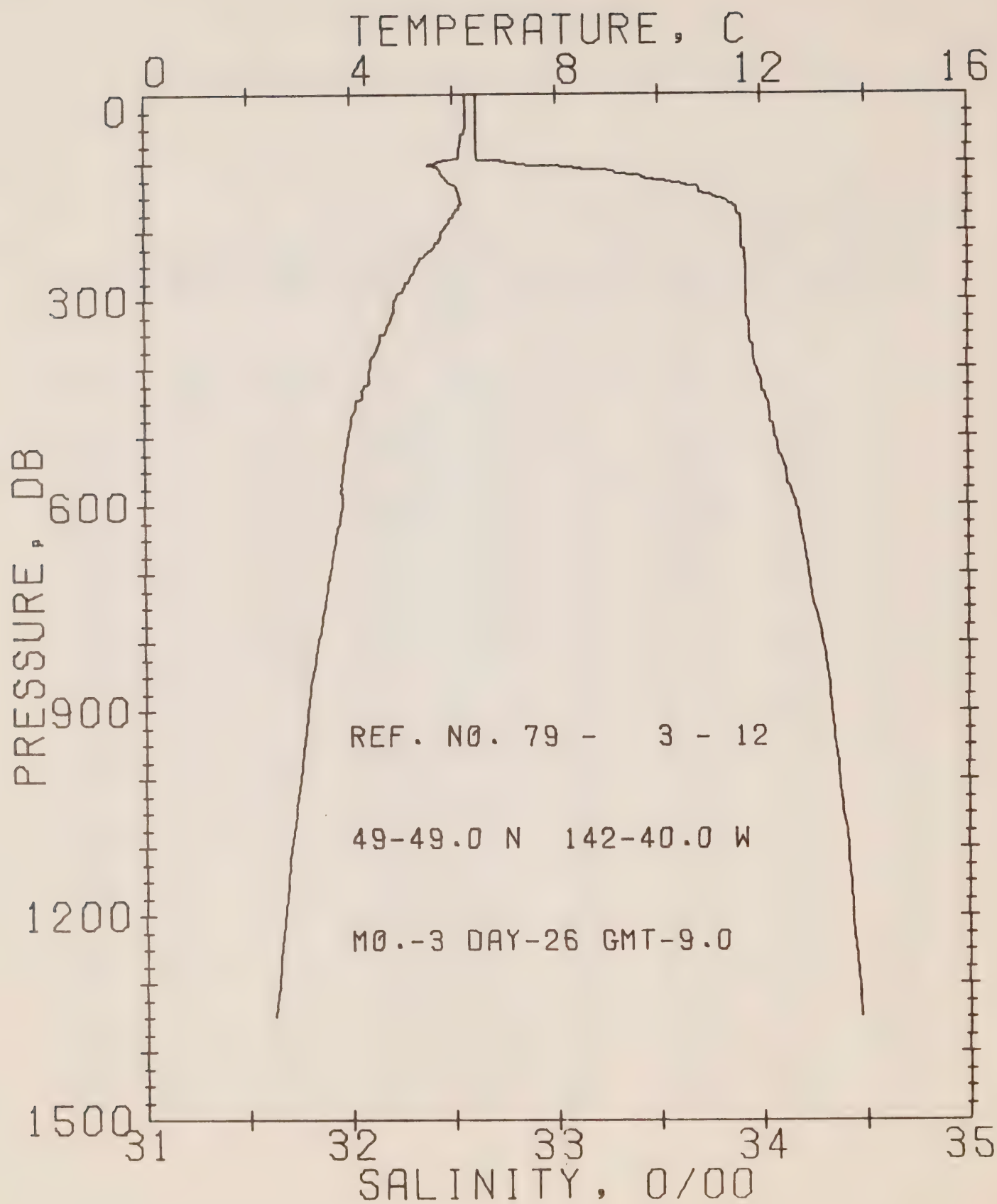
POSITION 49-49.0N, 142-40.0W GMT 9.0

STATION 12

RESULTS OF STP CAST 132 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.61	0	25.66	233.9	.00	.00	1473.
10	6.26	32.61	10	25.66	234.2	.23	.01	1473.
20	6.26	32.61	20	25.66	234.3	.47	.05	1473.
30	6.25	32.61	30	25.66	234.3	.70	.11	1473.
40	6.26	32.61	40	25.66	234.5	.94	.19	1474.
50	6.25	32.61	50	25.66	234.5	1.17	.30	1474.
60	6.15	32.61	60	25.67	233.4	1.41	.43	1473.
70	6.14	32.61	70	25.67	233.4	1.64	.58	1474.
80	6.12	32.61	79	25.68	233.3	1.87	.76	1474.
90	6.11	32.61	89	25.68	233.3	2.11	.97	1474.
100	5.65	32.80	99	25.88	213.8	2.33	1.18	1472.
110	5.76	33.18	109	26.17	186.8	2.53	1.40	1473.
120	5.83	33.41	119	26.34	170.9	2.71	1.61	1474.
130	5.97	33.58	129	26.46	159.7	2.88	1.82	1475.
140	6.12	33.70	139	26.53	152.7	3.03	2.03	1476.
150	6.15	33.77	149	26.59	148.0	3.18	2.26	1476.
160	6.15	33.85	159	26.65	142.1	3.33	2.48	1477.
170	6.04	33.88	169	26.69	138.7	3.47	2.72	1477.
180	5.96	33.90	179	26.71	136.3	3.61	2.96	1476.
190	5.88	33.91	189	26.73	134.8	3.74	3.22	1476.
200	5.78	33.91	199	26.74	133.6	3.88	3.49	1476.
210	5.74	33.91	209	26.75	133.3	4.01	3.77	1476.
220	5.63	33.91	218	26.76	132.1	4.14	4.06	1476.
230	5.49	33.92	228	26.79	129.8	4.27	4.36	1475.
240	5.33	33.92	238	26.80	128.0	4.40	4.67	1475.
250	5.26	33.93	248	26.82	126.5	4.53	4.98	1475.
260	5.21	33.93	258	26.83	126.0	4.65	5.31	1475.
270	5.14	33.93	268	26.83	125.3	4.78	5.65	1475.
280	5.05	33.93	278	26.84	124.4	4.91	6.00	1474.
290	4.92	33.93	288	26.86	123.1	5.03	6.36	1474.
300	4.82	33.93	298	26.87	122.0	5.15	6.73	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 12

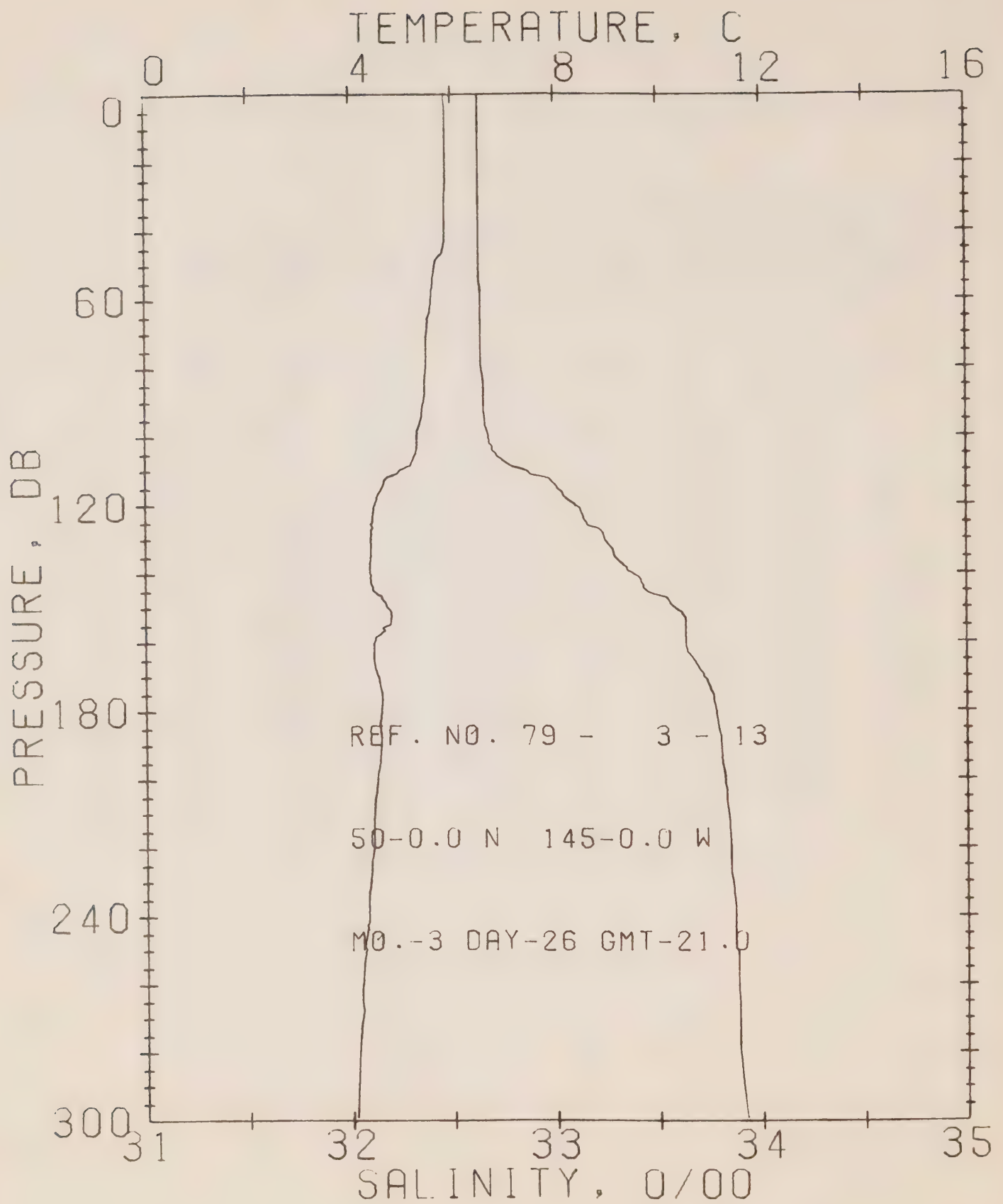
DATE 26/ 3/79

POSITION 49-49.0N, 142-40.0W GMT 9.0 STATION 12

RESULTS OF STP CAST 240 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.61	0	25.66	233.9	.00	.00	1473.
10	6.26	32.61	10	25.66	234.2	.23	.01	1473.
20	6.26	32.61	20	25.66	234.3	.47	.05	1473.
30	6.25	32.61	30	25.66	234.3	.70	.11	1473.
50	6.25	32.61	50	25.66	234.5	1.17	.30	1474.
75	6.13	32.61	75	25.67	233.4	1.76	.67	1474.
100	5.65	32.80	99	25.88	213.8	2.33	1.18	1472.
125	5.88	33.48	124	26.39	166.0	2.80	1.71	1475.
150	6.15	33.77	149	26.59	148.0	3.18	2.26	1476.
175	6.03	33.89	174	26.69	137.9	3.54	2.84	1477.
200	5.78	33.91	199	26.74	133.6	3.88	3.49	1476.
225	5.58	33.91	223	26.77	131.5	4.21	4.21	1476.
250	5.26	33.93	248	26.82	126.5	4.53	4.98	1475.
300	4.82	33.93	298	26.87	122.0	5.15	6.73	1474.
400	4.35	33.97	397	26.96	114.4	6.34	10.97	1473.
500	3.93	34.06	496	27.07	104.2	7.43	15.96	1473.
600	3.82	34.16	595	27.16	96.5	8.44	21.58	1475.
800	3.33	34.28	793	27.31	83.4	10.24	34.38	1476.
1000	2.97	34.37	990	27.40	74.8	11.81	48.78	1478.
1200	2.68	34.43	1188	27.48	68.0	13.23	64.68	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 13

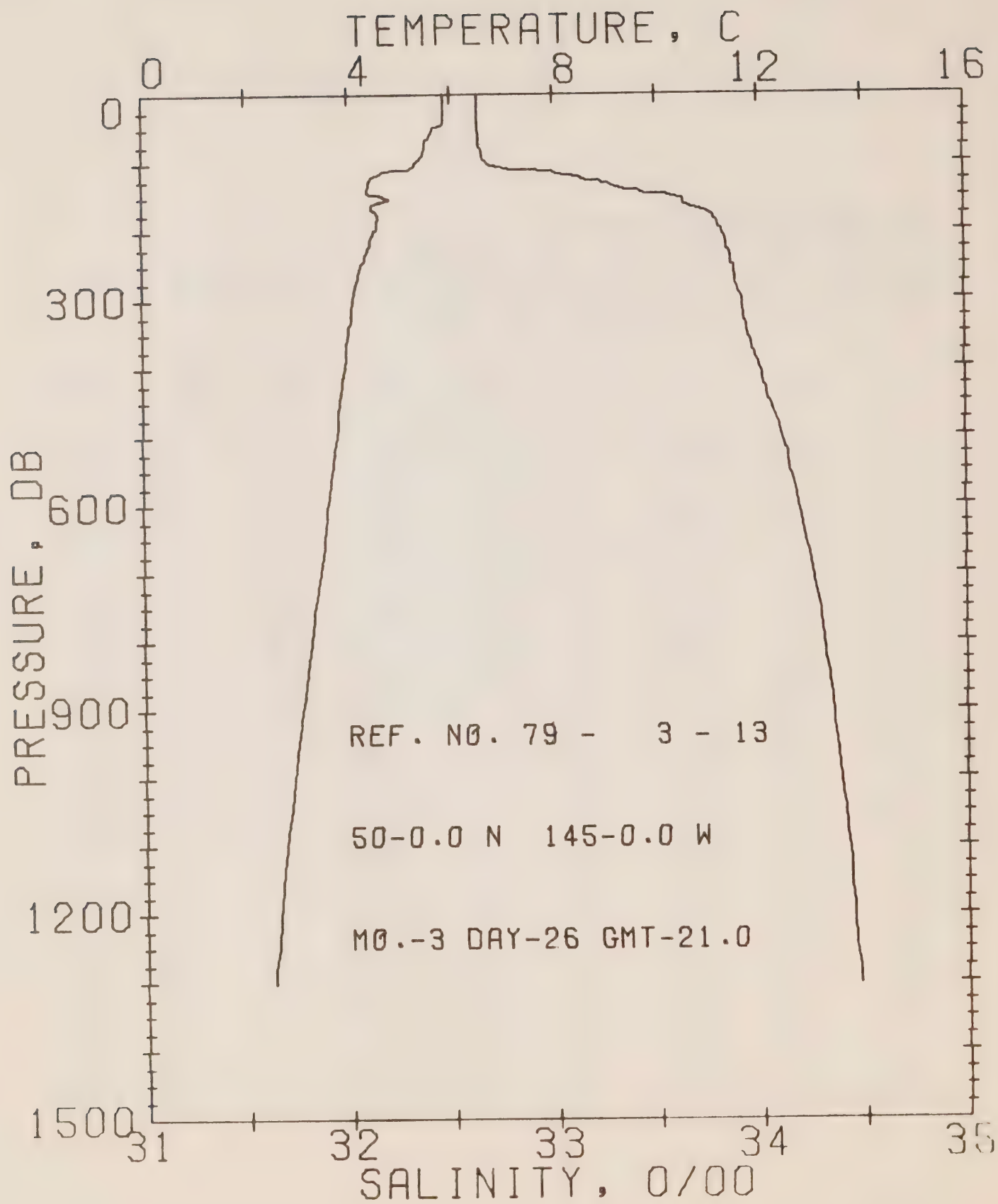
DATE 26/ 3/79

POSITION 50- .0N, 145- .0W GMT 21.0 STATION P

RESULTS OF STP CAST 131 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.88	32.63	0	25.72	228.1	.00	.00	1471.
10	5.89	32.63	10	25.72	228.3	.23	.01	1472.
20	5.89	32.63	20	25.72	228.4	.46	.05	1472.
30	5.88	32.63	30	25.72	228.5	.69	.10	1472.
40	5.87	32.63	40	25.72	228.4	.91	.19	1472.
50	5.67	32.63	50	25.75	226.3	1.14	.29	1471.
60	5.59	32.64	60	25.76	224.7	1.37	.42	1471.
70	5.50	32.64	70	25.77	223.8	1.59	.57	1471.
80	5.48	32.64	79	25.78	223.5	1.81	.74	1471.
90	5.43	32.65	89	25.79	222.4	2.04	.93	1471.
100	5.32	32.67	99	25.82	219.5	2.26	1.14	1471.
110	4.96	32.87	109	26.02	201.0	2.47	1.37	1470.
120	4.48	33.10	119	26.25	178.8	2.66	1.59	1468.
130	4.40	33.24	129	26.37	167.5	2.84	1.81	1468.
140	4.37	33.38	139	26.48	156.8	3.00	2.04	1469.
150	4.71	33.58	149	26.61	145.5	3.15	2.26	1470.
160	4.47	33.63	159	26.67	139.2	3.29	2.49	1470.
170	4.54	33.72	169	26.74	133.4	3.43	2.72	1470.
180	4.59	33.78	179	26.78	129.5	3.56	2.95	1471.
190	4.57	33.80	189	26.80	127.7	3.69	3.19	1471.
200	4.51	33.82	199	26.82	125.9	3.81	3.44	1471.
210	4.44	33.84	209	26.84	123.9	3.94	3.70	1471.
220	4.42	33.85	218	26.85	122.8	4.06	3.97	1471.
230	4.35	33.86	228	26.86	121.8	4.18	4.26	1471.
240	4.31	33.87	238	26.88	120.4	4.31	4.55	1471.
250	4.26	33.88	248	26.89	119.2	4.43	4.84	1471.
260	4.20	33.88	258	26.90	118.6	4.54	5.15	1470.
270	4.18	33.89	268	26.91	117.7	4.66	5.47	1471.
280	4.13	33.89	278	26.91	117.2	4.78	5.80	1470.
290	4.10	33.90	288	26.93	116.1	4.90	6.14	1471.
300	4.07	33.92	298	26.94	114.6	5.01	6.49	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 13

DATE 26/ 3/79

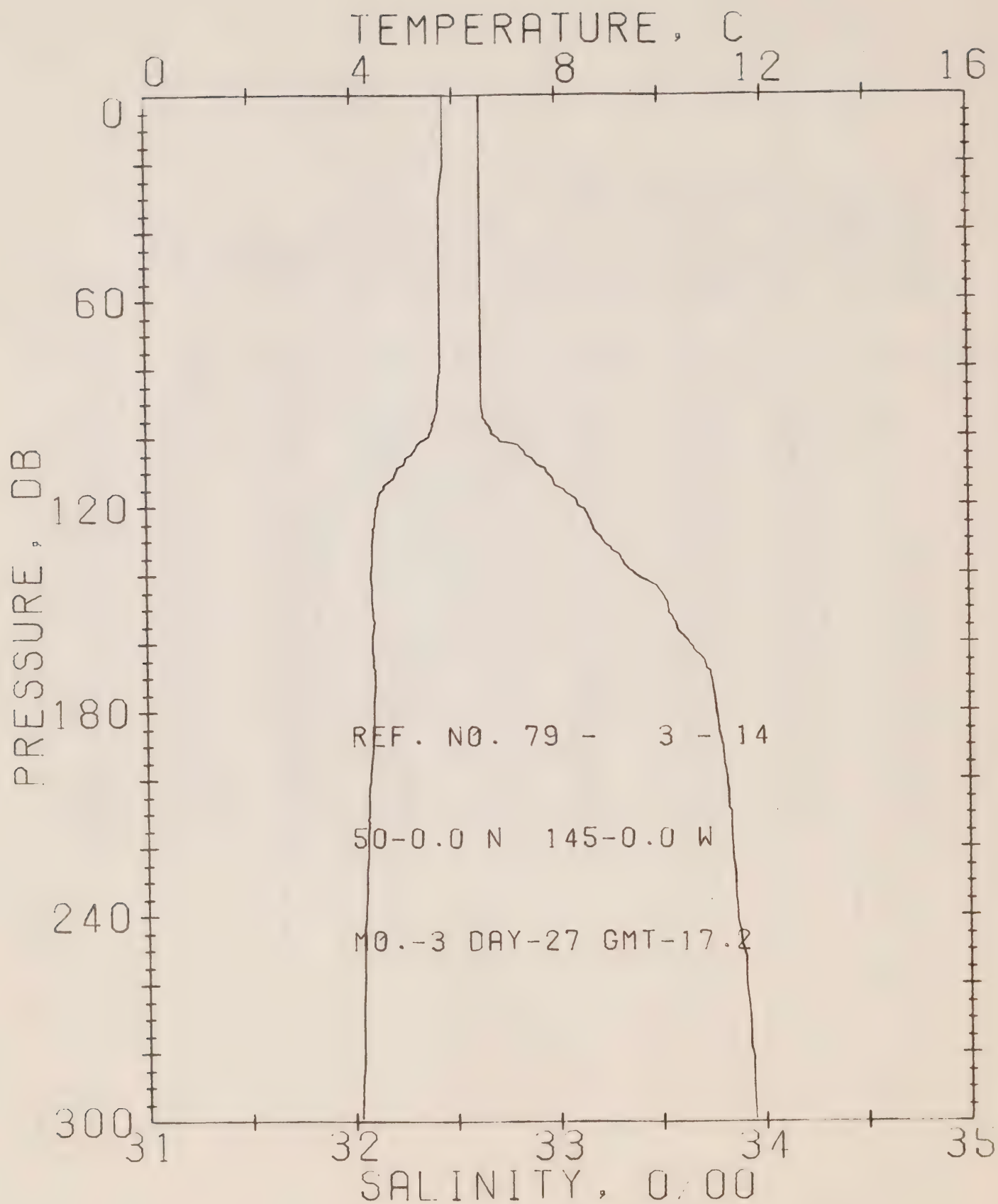
POSITION 50- .0N, 145- .0W GMT 21.0

STATION P

RESULTS OF STP CAST 203 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.88	32.63	0	25.72	228.1	.00	.00	1471.
10	5.89	32.63	10	25.72	228.3	.23	.01	1472.
20	5.89	32.63	20	25.72	228.4	.46	.05	1472.
30	5.88	32.63	30	25.72	228.5	.69	.10	1472.
50	5.67	32.65	50	25.75	226.3	1.14	.29	1471.
75	5.49	32.64	75	25.78	223.7	1.70	.65	1471.
100	5.32	32.67	99	25.82	219.5	2.26	1.14	1471.
125	4.42	33.15	124	25.30	174.4	2.75	1.70	1468.
150	4.71	33.56	149	26.61	145.5	3.15	2.26	1470.
175	4.60	33.77	174	26.77	130.3	3.49	2.83	1471.
200	4.51	33.82	199	26.82	125.9	3.81	3.44	1471.
225	4.37	33.85	223	26.86	122.4	4.12	4.11	1471.
250	4.26	33.88	248	26.89	119.2	4.43	4.84	1471.
300	4.07	33.92	298	26.94	114.6	5.01	6.49	1471.
400	3.93	34.00	397	27.02	107.9	6.13	10.47	1472.
500	3.75	34.10	496	27.12	99.2	7.17	15.22	1473.
600	3.57	34.18	595	27.20	92.4	8.12	20.58	1474.
800	3.22	34.30	793	27.33	81.0	9.85	32.86	1476.
1000	2.87	34.38	990	27.42	72.8	11.38	46.88	1478.
1200	2.60	34.44	1188	27.50	66.4	12.76	62.34	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 14

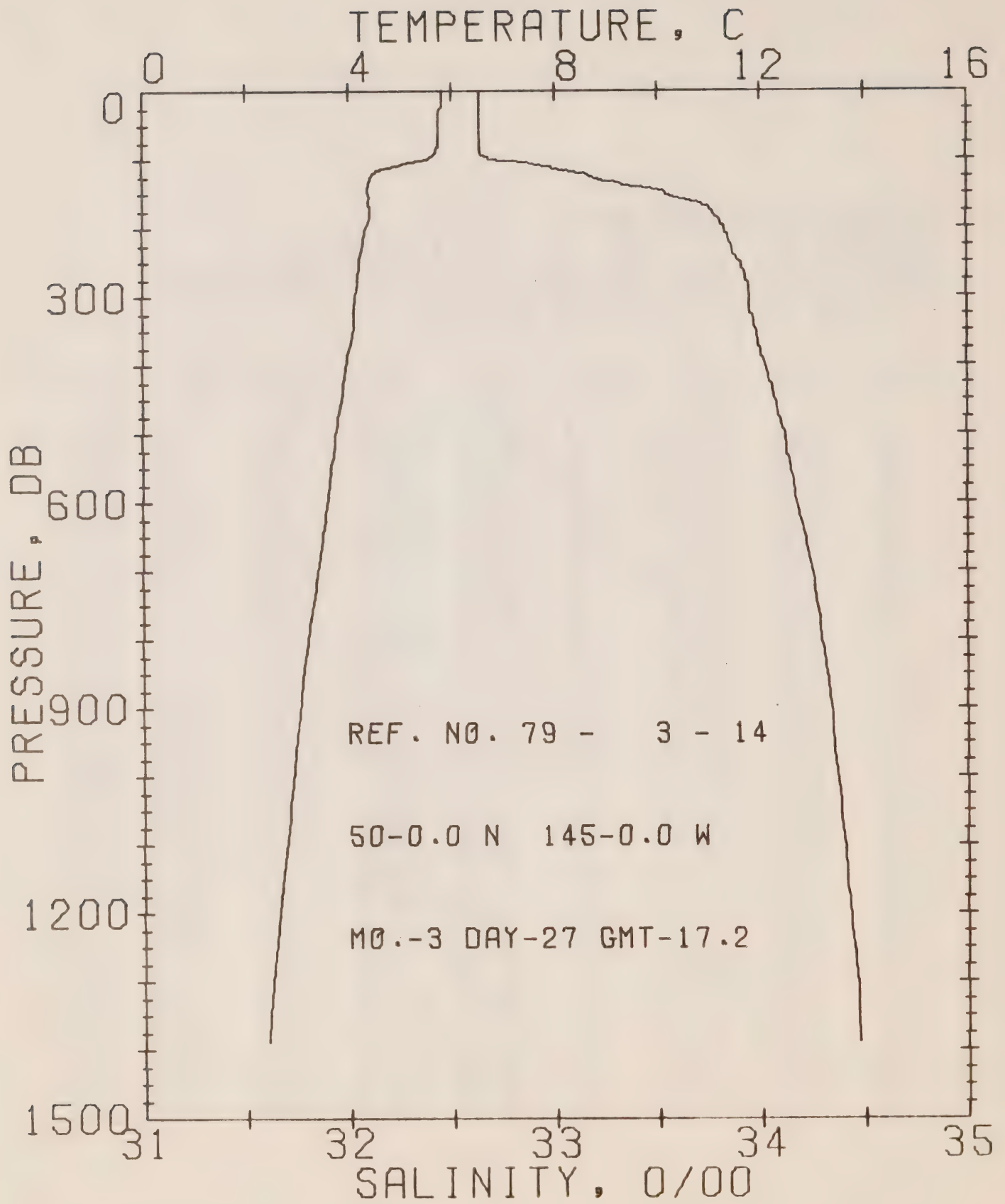
DATE 27/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 125 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.81	32.63	10	25.73	227.4	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.73	32.63	30	25.74	226.7	.68	.10	1471.
40	5.74	32.63	40	25.74	226.9	.91	.19	1472.
50	5.73	32.63	50	25.74	226.9	1.14	.29	1472.
60	5.72	32.63	60	25.74	226.9	1.36	.42	1472.
70	5.72	32.63	70	25.74	227.0	1.59	.57	1472.
80	5.72	32.63	79	25.74	227.1	1.82	.74	1472.
90	5.67	32.63	89	25.75	226.6	2.04	.94	1472.
100	5.50	32.71	99	25.83	218.8	2.27	1.15	1472.
110	4.86	32.95	109	26.09	193.9	2.47	1.37	1469.
120	4.47	33.10	119	26.25	178.7	2.66	1.59	1468.
130	4.38	33.22	129	26.36	168.8	2.83	1.81	1468.
140	4.35	33.38	139	26.49	156.6	2.99	2.03	1468.
150	4.39	33.54	149	26.61	145.3	3.14	2.25	1469.
160	4.36	33.64	159	26.69	137.4	3.28	2.48	1469.
170	4.42	33.74	169	26.77	130.4	3.42	2.70	1470.
180	4.40	33.77	179	26.79	128.1	3.55	2.93	1470.
190	4.36	33.80	189	26.82	125.7	3.67	3.17	1470.
200	4.32	33.82	199	26.84	123.8	3.80	3.42	1470.
210	4.30	33.84	208	26.86	122.2	3.92	3.68	1470.
220	4.28	33.85	218	26.87	121.3	4.04	3.95	1470.
230	4.25	33.86	228	26.88	120.4	4.16	4.22	1470.
240	4.21	33.87	238	26.89	119.3	4.28	4.51	1470.
250	4.19	33.90	248	26.91	117.0	4.40	4.81	1470.
260	4.18	33.91	258	26.93	116.0	4.52	5.11	1470.
270	4.16	33.93	268	26.94	114.5	4.63	5.42	1470.
280	4.15	33.94	278	26.95	114.0	4.75	5.74	1471.
290	4.12	33.94	288	26.96	113.5	4.86	6.07	1471.
300	4.10	33.95	298	26.96	112.7	4.98	6.41	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 14

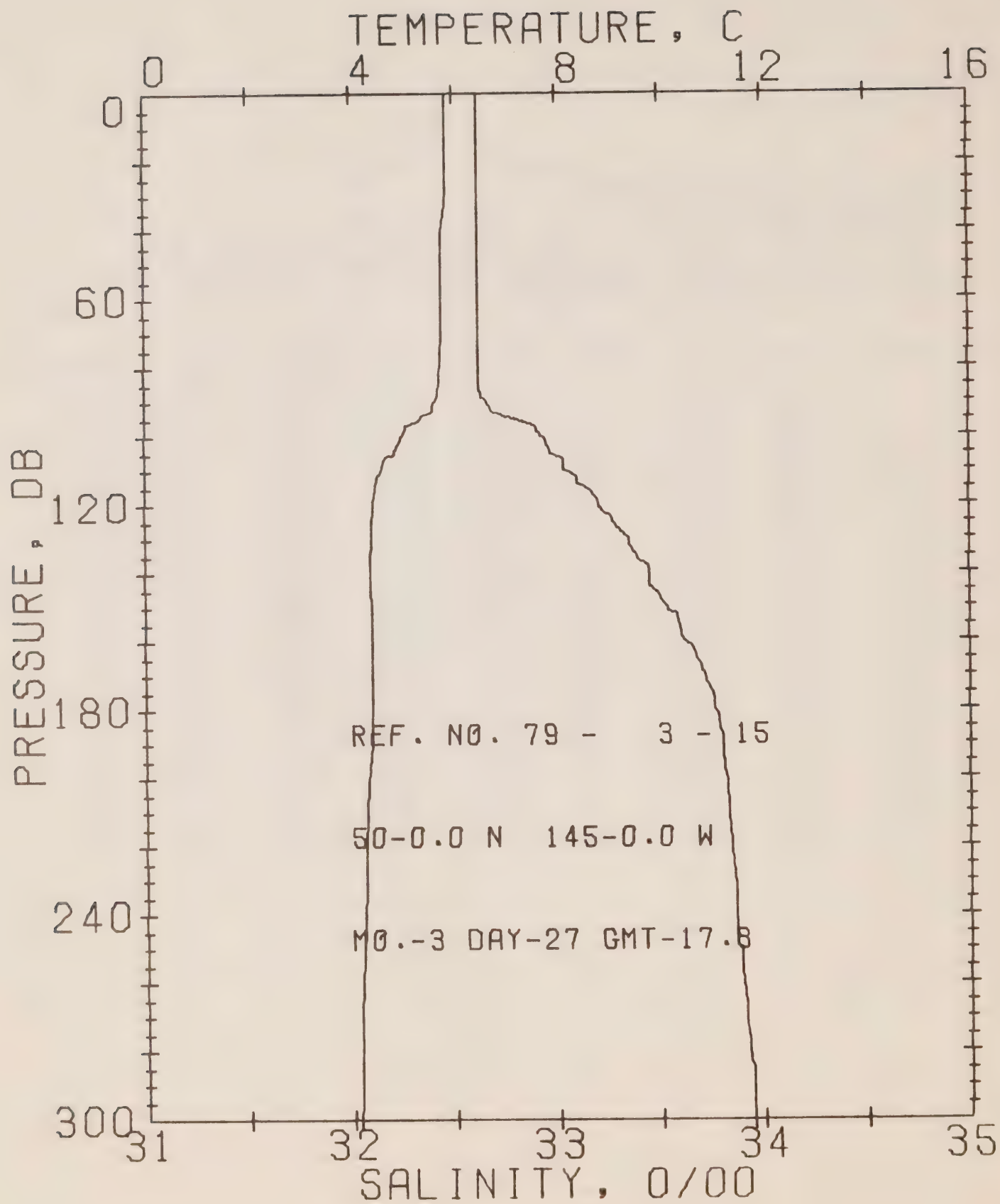
DATE 27/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 209 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.63	0	25.73	227.3	.00	.00	1471.
10	5.81	32.63	10	25.73	227.4	.23	.01	1471.
20	5.80	32.63	20	25.73	227.4	.45	.05	1471.
30	5.73	32.63	30	25.74	226.7	.68	.10	1471.
50	5.73	32.63	50	25.74	226.9	1.14	.29	1472.
75	5.72	32.63	75	25.74	227.1	1.70	.65	1472.
100	5.50	32.71	99	25.83	218.8	2.27	1.15	1472.
125	4.43	33.16	124	26.31	173.4	2.75	1.70	1468.
150	4.39	33.54	149	26.61	145.3	3.14	2.25	1469.
175	4.41	33.76	174	26.78	129.2	3.48	2.82	1470.
200	4.32	33.82	199	26.84	123.8	3.80	3.42	1470.
225	4.26	33.85	223	26.87	120.8	4.10	4.08	1470.
250	4.19	33.90	248	26.91	117.0	4.40	4.81	1470.
300	4.10	33.95	298	26.96	112.7	4.98	6.41	1471.
400	3.94	34.02	397	27.03	106.8	6.08	10.35	1472.
500	3.72	34.11	496	27.13	98.4	7.11	15.05	1473.
600	3.56	34.17	595	27.19	93.2	8.07	20.43	1474.
800	3.18	34.29	793	27.32	81.5	9.80	32.78	1475.
1000	2.90	34.37	990	27.41	74.0	11.35	46.93	1478.
1200	2.62	34.43	1188	27.48	67.8	12.77	62.80	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 15

DATE 27/ 3/79

POSITION 50- .0N, 145- .0W

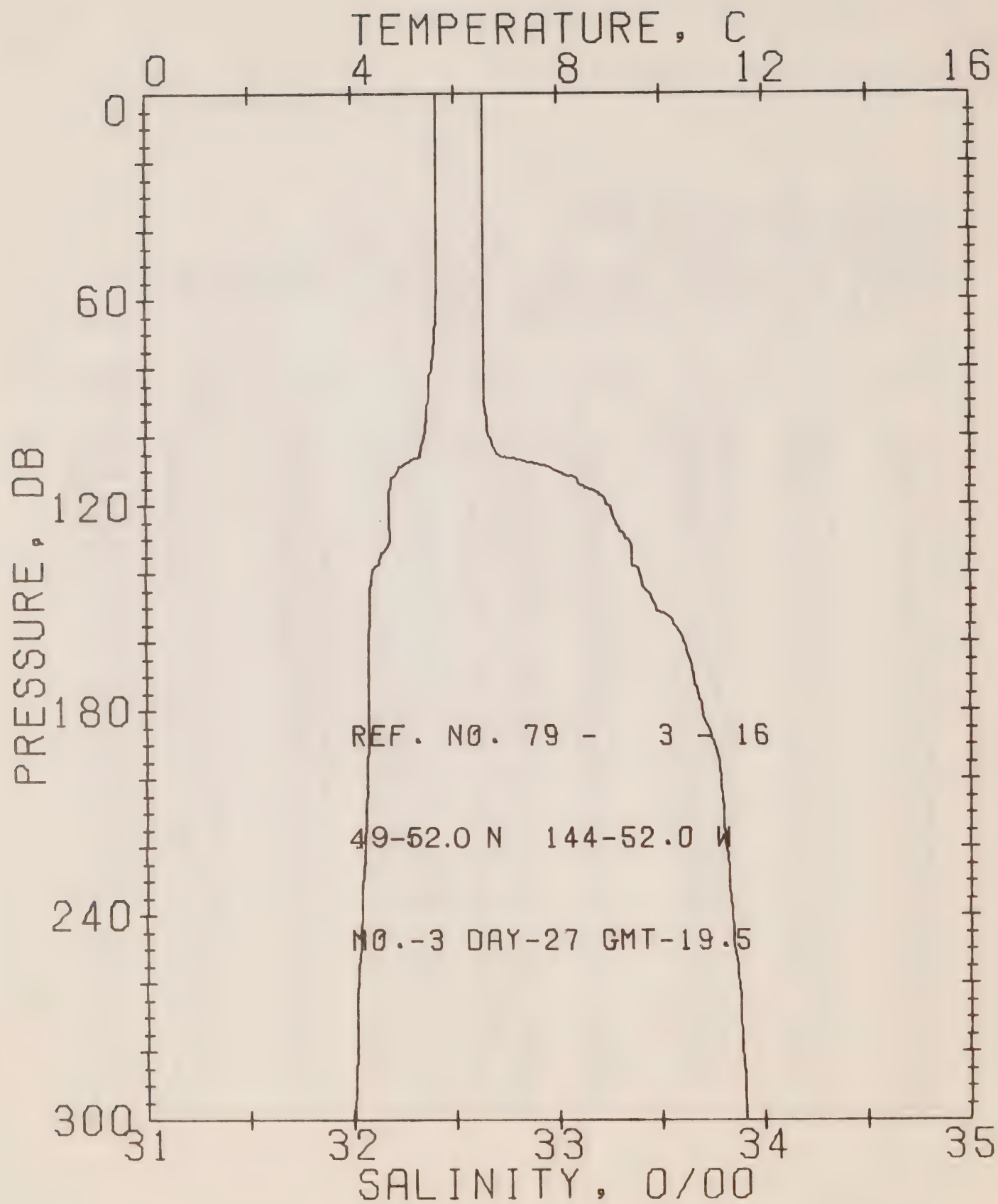
GMT 17.8

STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.87	32.62	0	25.71	228.7	.00	.00	1471.
10	5.88	32.62	10	25.71	228.9	.23	.01	1472.
20	5.86	32.62	20	25.72	228.8	.46	.05	1472.
30	5.85	32.62	30	25.72	228.8	.69	.10	1472.
40	5.77	32.62	40	25.73	228.0	.92	.19	1472.
50	5.75	32.62	50	25.73	227.9	1.14	.29	1472.
60	5.75	32.62	60	25.73	228.0	1.37	.42	1472.
70	5.75	32.62	70	25.73	228.1	1.60	.57	1472.
80	5.71	32.62	79	25.73	227.7	1.83	.74	1472.
90	5.61	32.65	89	25.77	224.5	2.05	.94	1472.
100	4.97	32.92	99	26.06	197.2	2.27	1.15	1470.
110	4.56	33.03	109	26.19	184.7	2.46	1.35	1468.
120	4.41	33.19	119	26.33	170.9	2.63	1.56	1468.
130	4.36	33.35	129	26.46	158.9	2.80	1.77	1468.
140	4.37	33.45	139	26.54	151.5	2.95	1.98	1469.
150	4.39	33.53	149	26.60	146.2	3.10	2.20	1469.
160	4.39	33.61	159	26.66	139.9	3.24	2.43	1469.
170	4.40	33.71	169	26.74	132.6	3.38	2.65	1470.
180	4.39	33.76	179	26.78	128.9	3.51	2.89	1470.
190	4.37	33.80	189	26.82	125.7	3.64	3.12	1470.
200	4.30	33.82	199	26.84	123.9	3.76	3.37	1470.
210	4.27	33.83	208	26.85	122.6	3.89	3.63	1470.
220	4.25	33.84	218	26.86	121.8	4.01	3.90	1470.
230	4.23	33.86	228	26.88	120.5	4.13	4.18	1470.
240	4.22	33.86	238	26.88	120.0	4.25	4.46	1470.
250	4.19	33.89	248	26.91	117.7	4.37	4.76	1470.
260	4.16	33.89	258	26.91	117.1	4.49	5.07	1470.
270	4.16	33.91	268	26.93	116.1	4.60	5.38	1470.
280	4.16	33.92	278	26.93	115.4	4.72	5.71	1471.
290	4.13	33.94	288	26.95	113.7	4.83	6.04	1471.
300	4.11	33.95	298	26.96	113.0	4.95	6.38	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 16

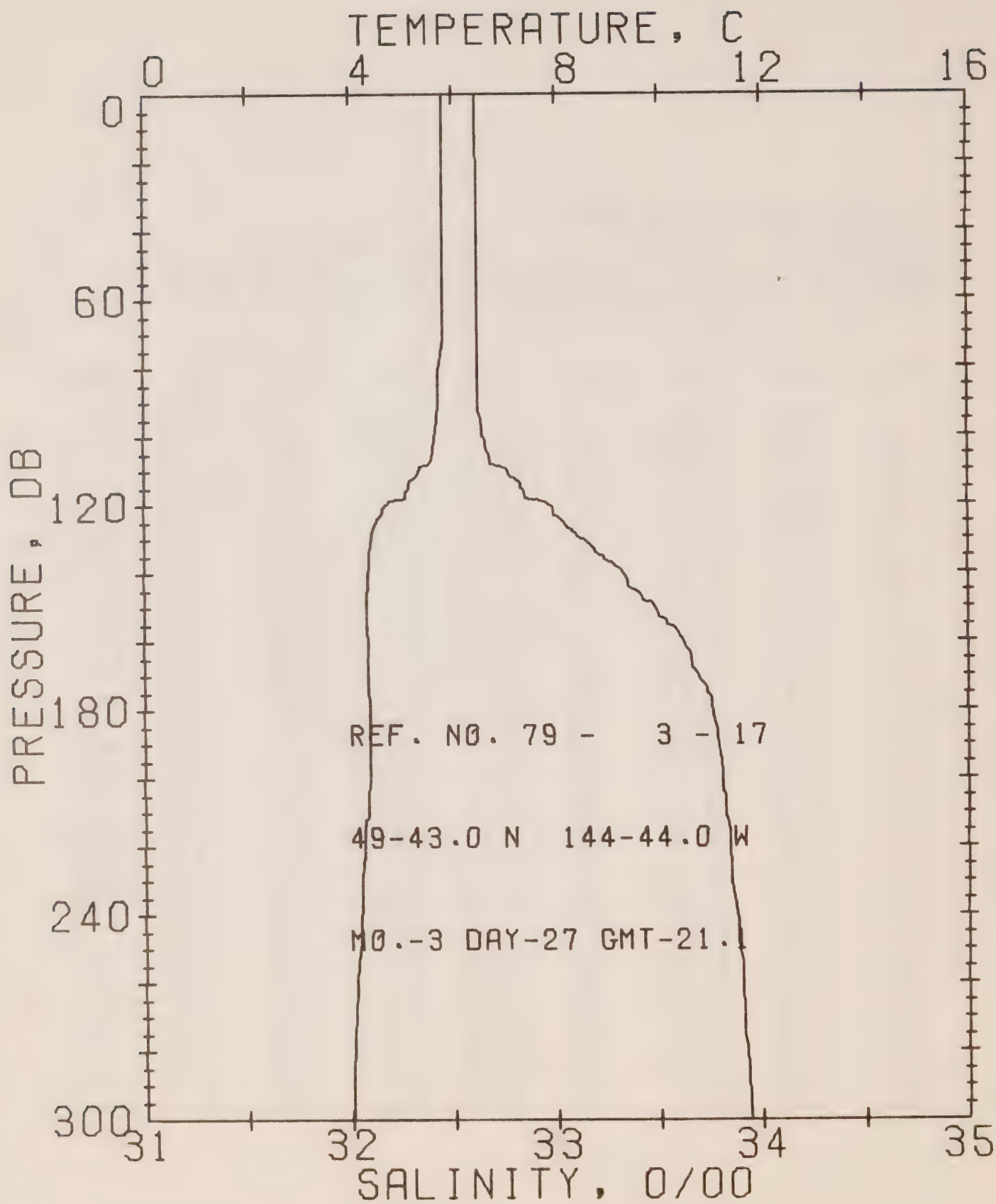
DATE 27/ 3/79

POSITION - .0N, 144-52.0W GMT 19.5 STATION E3

RESULTS OF STP CAST 108 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.66	32.64	0	25.76	224.8	.00	.00	1471.
10	5.66	32.64	10	25.76	225.0	.22	.01	1471.
20	5.66	32.64	20	25.76	225.1	.45	.05	1471.
30	5.66	32.64	30	25.76	225.2	.68	.10	1471.
40	5.66	32.64	40	25.76	225.3	.90	.18	1471.
50	5.66	32.64	50	25.76	225.4	1.13	.29	1471.
60	5.64	32.64	60	25.76	225.2	1.35	.41	1471.
70	5.60	32.64	70	25.76	224.9	1.58	.56	1471.
80	5.55	32.64	79	25.77	224.4	1.80	.73	1471.
90	5.46	32.64	89	25.78	223.5	2.02	.93	1471.
100	5.39	32.66	99	25.80	221.3	2.25	1.14	1471.
110	4.87	32.98	109	26.11	191.8	2.46	1.37	1470.
120	4.71	33.23	119	26.33	171.4	2.64	1.58	1469.
130	4.76	33.33	129	26.40	164.6	2.81	1.79	1470.
140	4.36	33.39	139	26.50	155.7	2.97	2.01	1469.
150	4.31	33.47	149	26.56	149.4	3.12	2.24	1469.
160	4.30	33.61	159	26.67	139.3	3.26	2.47	1469.
170	4.30	33.65	169	26.71	136.1	3.40	2.70	1469.
180	4.30	33.69	179	26.74	132.8	3.53	2.94	1469.
190	4.30	33.75	189	26.78	128.8	3.67	3.18	1470.
200	4.27	33.79	199	26.82	125.7	3.79	3.44	1470.
210	4.24	33.80	208	26.83	124.5	3.92	3.70	1470.
220	4.22	33.81	218	26.84	123.5	4.04	3.97	1470.
230	4.18	33.83	228	26.86	121.9	4.16	4.25	1470.
240	4.15	33.84	238	26.87	120.8	4.29	4.54	1470.
250	4.11	33.85	248	26.89	119.6	4.41	4.84	1470.
260	4.06	33.87	258	26.91	117.7	4.52	5.15	1470.
270	4.05	33.88	268	26.92	117.0	4.64	5.47	1470.
280	4.05	33.89	278	26.92	116.4	4.76	5.79	1470.
290	4.03	33.90	288	26.93	115.5	4.87	6.13	1470.
300	4.01	33.91	298	26.94	114.6	4.99	6.48	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 17

DATE 27/ 3/79

POSITION 49-43.0N, 144-44.0W

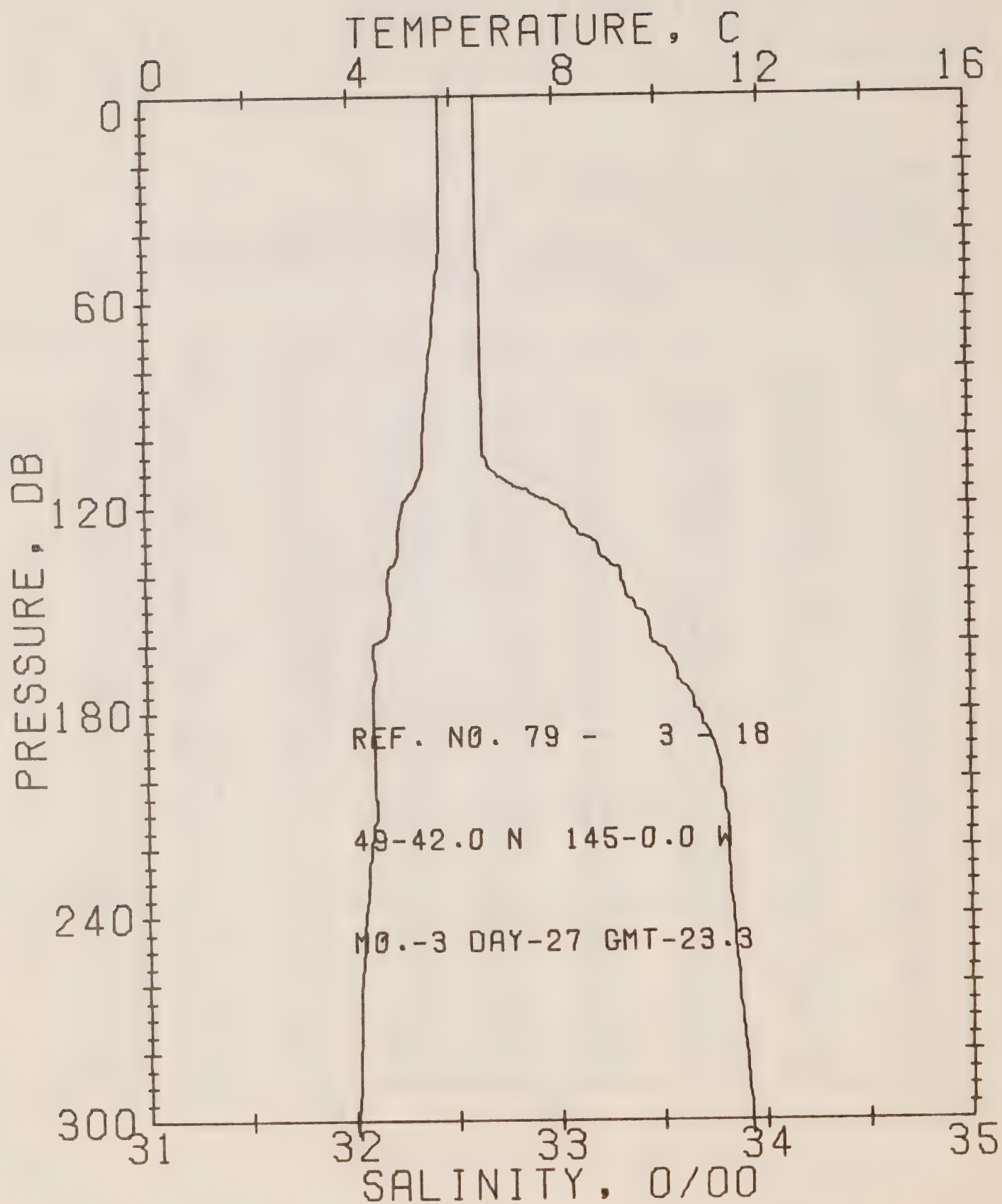
GMT 21.1

STATION E4

RESULTS OF STP CAST 115 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.82	32.61	0	25.71	228.9	.00	.00	1471.
10	5.82	32.61	10	25.71	229.0	.23	.01	1471.
20	5.82	32.62	20	25.72	228.7	.46	.05	1472.
30	5.82	32.62	30	25.72	228.5	.69	.10	1472.
40	5.80	32.62	40	25.72	228.4	.91	.19	1472.
50	5.80	32.62	50	25.72	228.5	1.14	.29	1472.
60	5.80	32.62	60	25.72	228.6	1.37	.42	1472.
70	5.80	32.62	70	25.72	228.7	1.60	.57	1472.
80	5.72	32.62	79	25.73	227.8	1.83	.75	1472.
90	5.70	32.62	89	25.73	227.7	2.06	.94	1472.
100	5.64	32.64	99	25.76	225.7	2.28	1.16	1472.
110	5.32	32.76	109	25.89	213.2	2.51	1.40	1471.
120	4.67	32.96	119	26.12	191.2	2.71	1.64	1469.
130	4.38	33.12	129	26.28	176.0	2.89	1.87	1468.
140	4.32	33.32	139	26.44	160.8	3.06	2.11	1468.
150	4.31	33.48	149	26.57	148.8	3.22	2.34	1469.
160	4.34	33.61	159	26.67	139.4	3.36	2.56	1469.
170	4.34	33.68	169	26.73	134.3	3.50	2.79	1469.
180	4.38	33.76	179	26.78	129.1	3.63	3.03	1470.
190	4.37	33.79	189	26.81	126.8	3.76	3.27	1470.
200	4.36	33.81	199	26.83	125.0	3.88	3.52	1470.
210	4.31	33.82	209	26.84	123.8	4.01	3.78	1470.
220	4.25	33.84	218	26.86	121.7	4.13	4.05	1470.
230	4.19	33.85	228	26.88	120.5	4.25	4.32	1470.
240	4.17	33.88	238	26.90	118.5	4.37	4.61	1470.
250	4.13	33.89	248	26.91	117.3	4.49	4.90	1470.
260	4.08	33.90	258	26.93	115.9	4.61	5.21	1470.
270	4.06	33.91	268	26.94	114.9	4.72	5.52	1470.
280	4.02	33.92	278	26.95	113.8	4.84	5.84	1470.
290	4.01	33.93	288	26.96	112.9	4.95	6.17	1470.
300	3.99	33.94	298	26.97	112.3	5.06	6.51	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 18

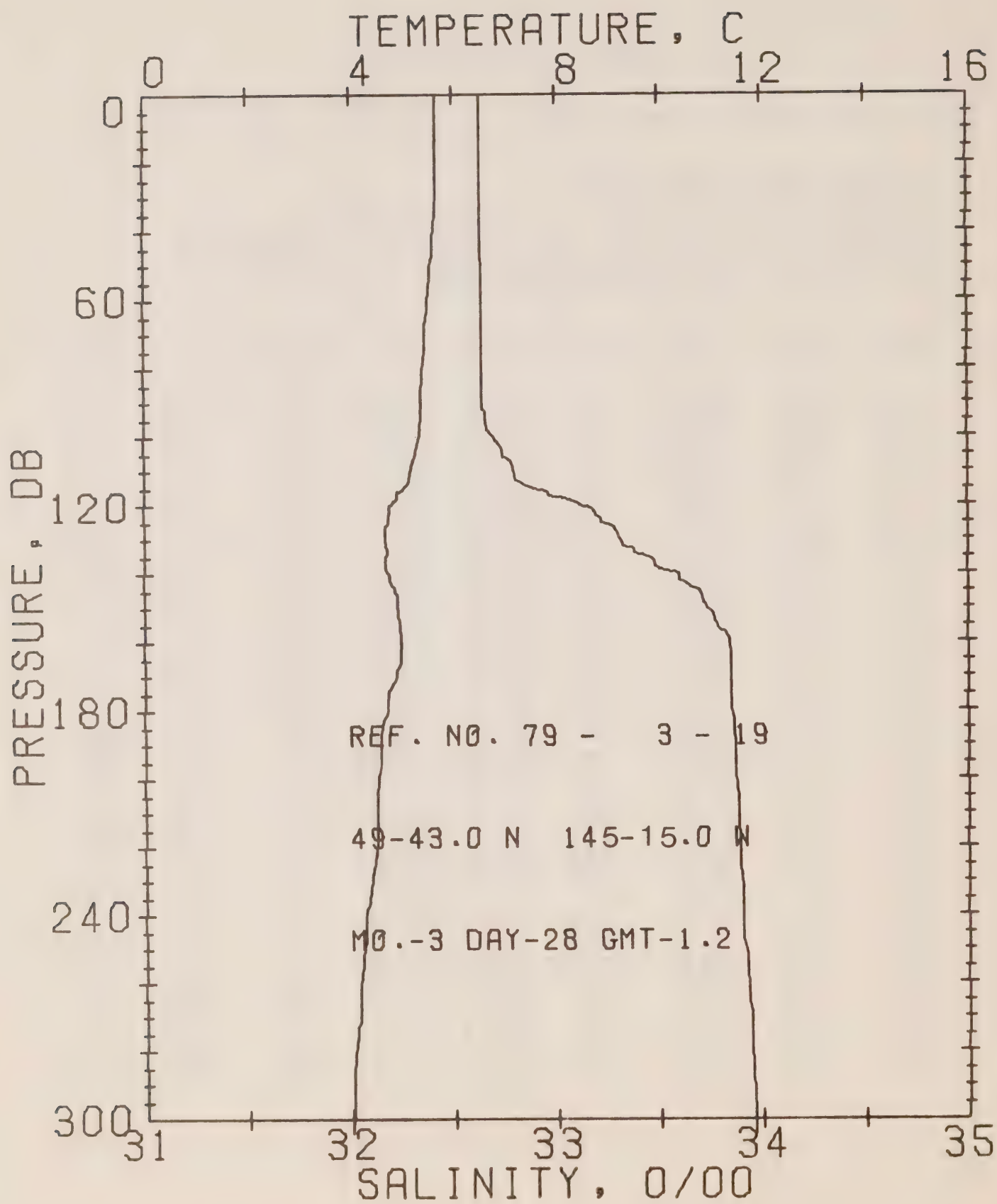
DATE 27/ 3/79

POSITION 49-42.0N, 145- .0W GMT 23.3 STATION C1

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.79	32.62	0	25.72	227.8	.00	.00	1471.
10	5.79	32.62	10	25.72	227.9	.23	.01	1471.
20	5.78	32.62	20	25.73	227.9	.46	.05	1471.
30	5.77	32.62	30	25.73	227.9	.68	.10	1471.
40	5.76	32.62	40	25.73	227.9	.91	.19	1472.
50	5.73	32.62	50	25.73	227.7	1.14	.29	1472.
60	5.64	32.63	60	25.75	226.0	1.37	.42	1471.
70	5.59	32.63	70	25.76	225.5	1.59	.57	1471.
80	5.50	32.63	79	25.77	224.6	1.82	.74	1471.
90	5.43	32.64	89	25.78	223.2	2.04	.93	1471.
100	5.40	32.64	99	25.79	222.9	2.26	1.15	1471.
110	5.34	32.69	109	25.83	218.6	2.49	1.39	1471.
120	4.97	32.99	119	26.11	191.8	2.69	1.63	1470.
130	4.90	33.17	129	26.26	178.0	2.88	1.86	1470.
140	4.69	33.31	139	26.39	165.4	3.05	2.10	1470.
150	4.75	33.38	149	26.44	160.9	3.21	2.34	1470.
160	4.39	33.46	159	26.55	151.2	3.37	2.59	1469.
170	4.43	33.58	169	26.64	142.6	3.51	2.83	1470.
180	4.38	33.68	179	26.72	134.8	3.65	3.08	1470.
190	4.43	33.75	189	26.77	130.1	3.78	3.33	1470.
200	4.41	33.79	199	26.80	127.0	3.91	3.58	1470.
210	4.45	33.82	209	26.82	125.7	4.04	3.85	1471.
220	4.33	33.82	218	26.84	124.1	4.16	4.12	1470.
230	4.26	33.83	228	26.85	122.7	4.29	4.40	1470.
240	4.19	33.84	238	26.87	121.3	4.41	4.70	1470.
250	4.15	33.85	248	26.88	120.0	4.53	5.00	1470.
260	4.10	33.87	258	26.90	118.3	4.65	5.31	1470.
270	4.08	33.88	268	26.91	117.4	4.77	5.63	1470.
280	4.07	33.90	278	26.93	116.1	4.88	5.95	1470.
290	4.04	33.91	288	26.94	115.0	5.00	6.29	1470.
300	4.01	33.92	298	26.95	113.8	5.11	6.63	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 19

DATE 28/ 3/79

POSITION 49-43.0N,

.0W

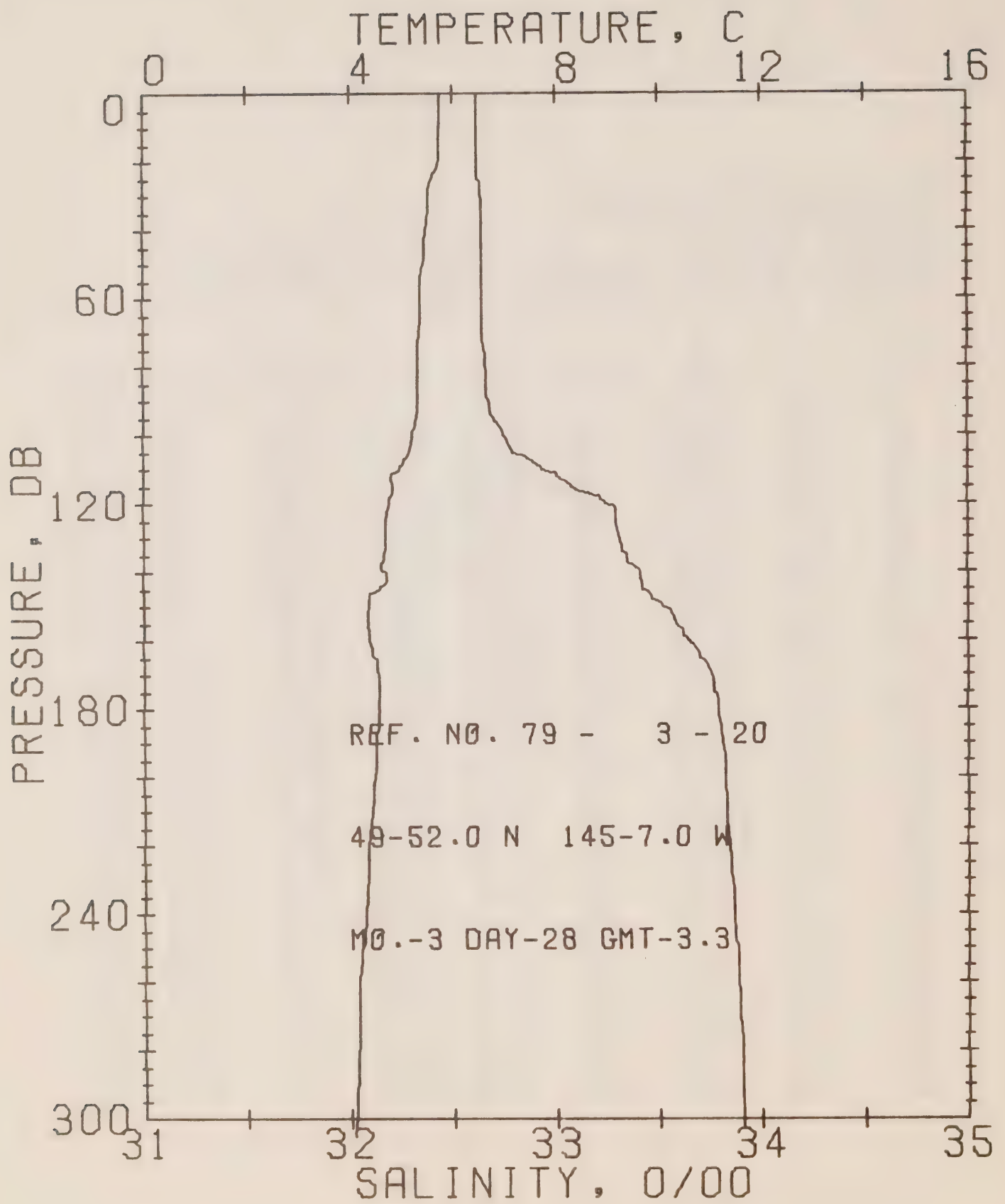
GMT 1.2

STATION

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67	32.63	0	25.75	225.7	.00	.00	1471.
10	5.67	32.63	10	25.75	225.8	.23	.01	1471.
20	5.67	32.63	20	25.75	225.9	.45	.05	1471.
30	5.67	32.63	30	25.75	226.0	.68	.10	1471.
40	5.63	32.63	40	25.75	225.7	.90	.18	1471.
50	5.55	32.64	50	25.77	224.1	1.13	.29	1471.
60	5.49	32.64	60	25.78	223.5	1.35	.41	1471.
70	5.45	32.64	70	25.78	223.2	1.58	.56	1471.
80	5.39	32.64	79	25.79	222.6	1.80	.73	1471.
90	5.36	32.64	89	25.79	222.4	2.02	.92	1471.
100	5.31	32.68	99	25.83	218.6	2.24	1.14	1471.
110	5.15	32.79	109	25.93	209.0	2.46	1.37	1470.
120	4.76	33.11	119	26.23	180.9	2.66	1.60	1469.
130	4.69	33.31	129	26.39	165.5	2.83	1.82	1470.
140	4.74	33.59	139	26.61	145.0	2.98	2.03	1470.
150	4.92	33.73	149	26.70	136.8	3.12	2.24	1471.
160	4.99	33.84	159	26.78	129.2	3.26	2.45	1472.
170	4.87	33.85	169	26.80	127.2	3.39	2.67	1472.
180	4.69	33.85	179	26.82	125.4	3.51	2.89	1471.
190	4.56	33.87	189	26.85	122.5	3.63	3.12	1471.
200	4.52	33.87	199	26.86	122.1	3.76	3.37	1471.
210	4.48	33.88	209	26.87	121.2	3.88	3.62	1471.
220	4.46	33.89	218	26.88	120.2	4.00	3.89	1471.
230	4.37	33.90	228	26.89	118.9	4.12	4.16	1471.
240	4.25	33.90	238	26.91	117.5	4.24	4.44	1470.
250	4.22	33.91	248	26.92	116.3	4.35	4.74	1470.
260	4.15	33.93	258	26.94	114.5	4.47	5.04	1470.
270	4.14	33.94	268	26.95	113.6	4.58	5.34	1470.
280	4.04	33.94	278	26.96	112.4	4.70	5.66	1470.
290	4.00	33.95	288	26.98	111.3	4.81	5.99	1470.
300	3.98	33.96	298	26.98	110.7	4.92	6.32	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 20

DATE 28/ 3/79

POSITION 49-52.0N, 145- 7.0W

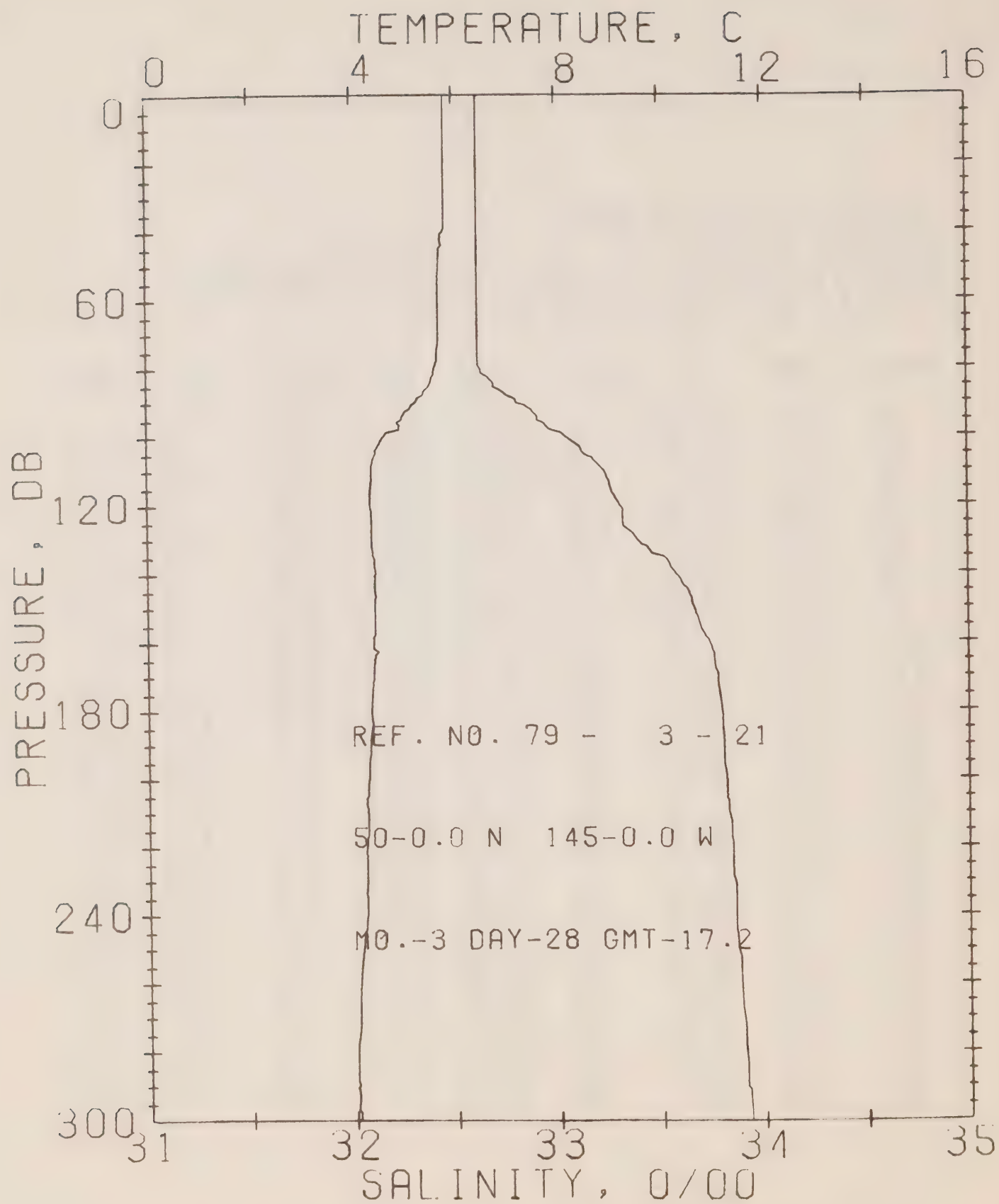
GMT 3.3

STATION

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.76	32.62	0	25.73	227.5	.00	.00	1471.
10	5.74	32.62	10	25.73	227.4	.23	.01	1471.
20	5.71	32.62	20	25.73	227.1	.45	.05	1471.
30	5.53	32.63	30	25.77	224.1	.68	.10	1471.
40	5.46	32.64	40	25.78	223.1	.90	.18	1470.
50	5.42	32.64	50	25.78	222.7	1.13	.29	1470.
60	5.37	32.64	60	25.79	222.2	1.35	.41	1470.
70	5.33	32.64	70	25.79	221.9	1.57	.56	1470.
80	5.30	32.65	79	25.81	220.6	1.79	.73	1470.
90	5.30	32.66	89	25.82	219.9	2.01	.92	1471.
100	5.20	32.74	99	25.89	213.2	2.23	1.13	1470.
110	4.93	32.93	109	26.07	196.2	2.44	1.35	1470.
120	4.74	33.24	119	26.33	171.0	2.62	1.56	1470.
130	4.68	33.31	129	26.39	165.5	2.79	1.78	1470.
140	4.69	33.41	139	26.47	157.9	2.95	2.00	1470.
150	4.34	33.52	149	26.60	146.1	3.10	2.23	1469.
160	4.38	33.64	159	26.69	137.6	3.24	2.45	1469.
170	4.57	33.75	169	26.76	131.4	3.38	2.67	1470.
180	4.55	33.79	179	26.79	128.3	3.51	2.91	1470.
190	4.47	33.81	189	26.81	126.1	3.63	3.15	1470.
200	4.45	33.82	199	26.82	125.2	3.76	3.39	1470.
210	4.39	33.83	208	26.84	123.9	3.88	3.66	1470.
220	4.33	33.84	218	26.85	122.6	4.01	3.93	1470.
230	4.30	33.85	228	26.87	121.4	4.13	4.21	1470.
240	4.27	33.86	238	26.88	120.6	4.25	4.49	1470.
250	4.20	33.88	248	26.90	118.5	4.37	4.79	1470.
260	4.14	33.88	258	26.91	117.7	4.49	5.10	1470.
270	4.13	33.89	268	26.91	117.2	4.61	5.42	1470.
280	4.11	33.90	278	26.92	116.3	4.72	5.75	1470.
290	4.10	33.90	288	26.92	116.3	4.84	6.08	1471.
300	4.08	33.91	298	26.93	115.4	4.95	6.43	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 21

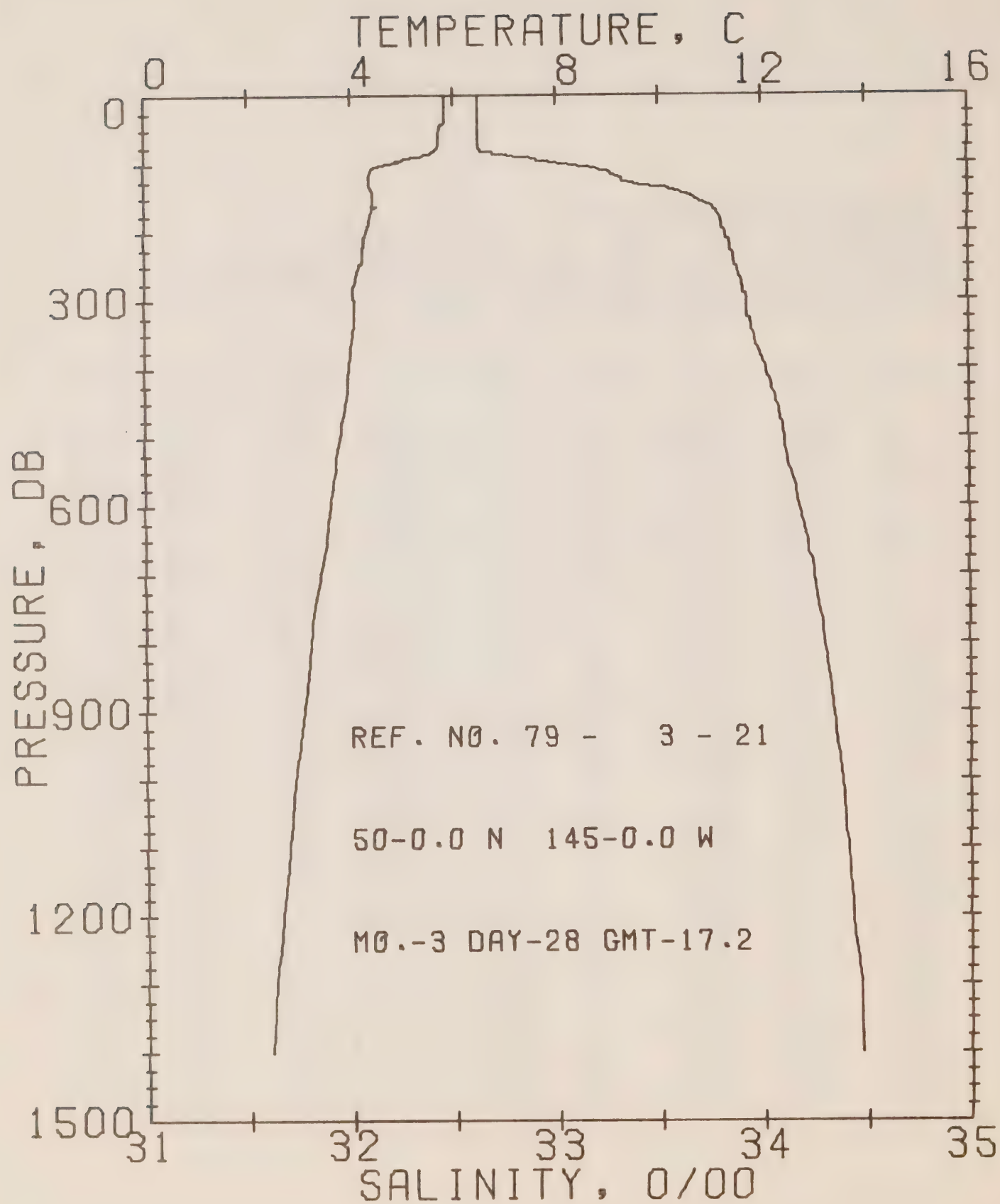
DATE 28/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 143 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.84	32.62	0	25.72	228.4	.00	.00	1471.
10	5.84	32.62	10	25.72	228.5	.23	.01	1471.
20	5.84	32.62	20	25.72	228.6	.46	.05	1472.
30	5.84	32.62	30	25.72	228.7	.69	.10	1472.
40	5.82	32.62	40	25.72	228.6	.91	.19	1472.
50	5.72	32.62	50	25.73	227.5	1.14	.29	1472.
60	5.70	32.62	60	25.73	227.5	1.37	.42	1472.
70	5.70	32.62	70	25.73	227.5	1.60	.57	1472.
80	5.64	32.63	79	25.75	226.2	1.82	.74	1472.
90	5.26	32.81	89	25.94	208.6	2.04	.93	1471.
100	4.62	33.05	99	26.19	184.2	2.24	1.12	1468.
110	4.38	33.23	109	26.36	167.9	2.42	1.31	1468.
120	4.34	33.31	119	26.43	161.6	2.58	1.50	1468.
130	4.36	33.39	129	26.50	155.5	2.74	1.71	1468.
140	4.45	33.58	139	26.63	142.6	2.89	1.91	1469.
150	4.42	33.66	149	26.70	136.0	3.03	2.12	1469.
160	4.40	33.74	159	26.76	130.6	3.16	2.33	1469.
170	4.39	33.78	169	26.80	127.3	3.29	2.54	1470.
180	4.35	33.80	179	26.82	125.7	3.42	2.77	1470.
190	4.32	33.81	189	26.83	124.5	3.54	3.01	1470.
200	4.29	33.82	199	26.84	123.5	3.67	3.25	1470.
210	4.28	33.83	208	26.85	122.5	3.79	3.51	1470.
220	4.24	33.85	218	26.87	120.9	3.91	3.78	1470.
230	4.24	33.86	228	26.88	120.6	4.03	4.05	1470.
240	4.23	33.86	238	26.88	120.2	4.15	4.34	1470.
250	4.14	33.87	248	26.90	118.4	4.27	4.64	1470.
260	4.10	33.88	258	26.91	117.2	4.39	4.95	1470.
270	4.09	33.90	268	26.92	116.4	4.51	5.26	1470.
280	4.03	33.90	278	26.93	115.2	4.62	5.59	1470.
290	4.05	33.91	288	26.94	115.1	4.74	5.92	1470.
300	4.06	33.93	298	26.95	113.8	4.85	6.26	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 21

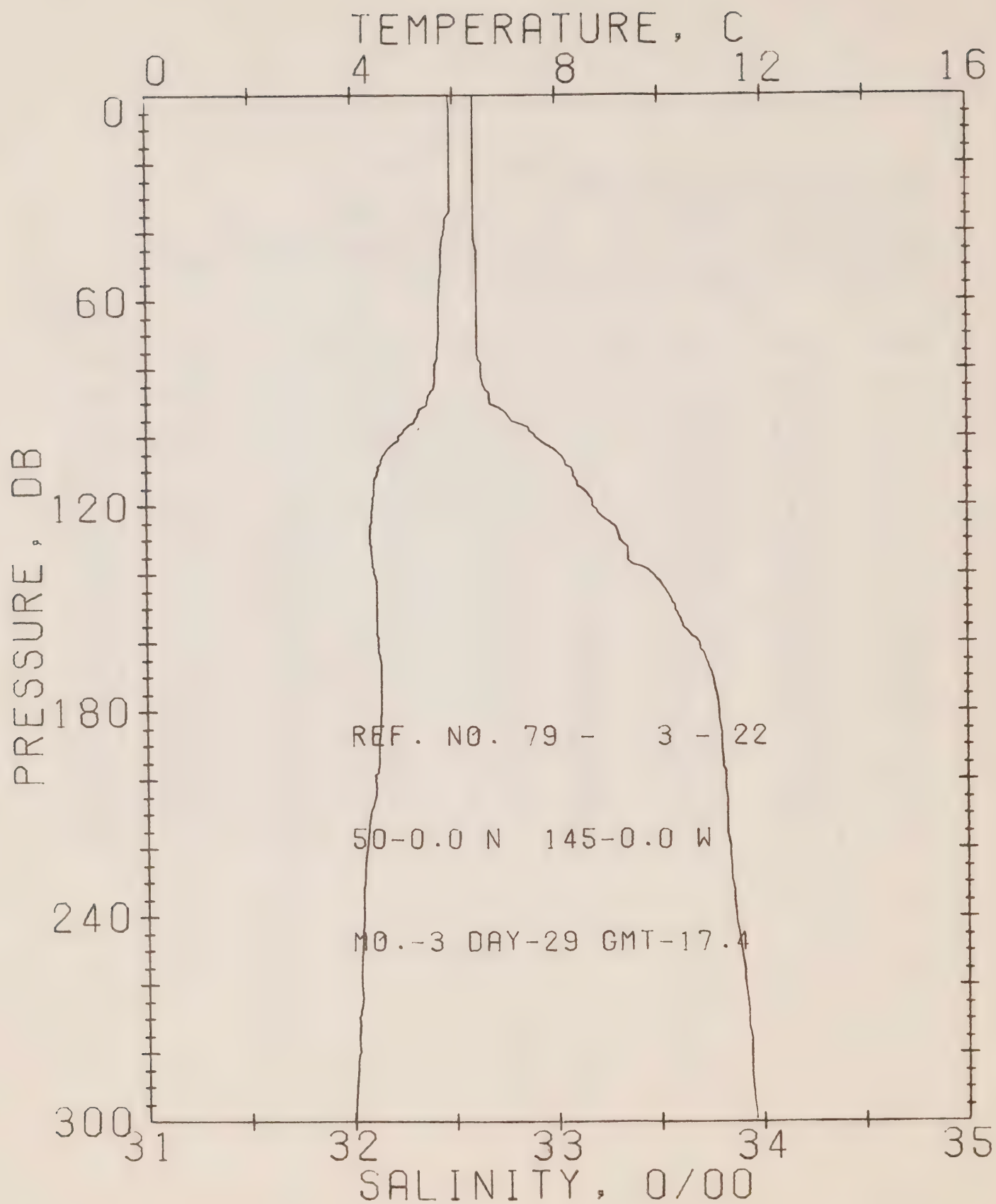
DATE 28/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 234 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.84	32.62	0	25.72	228.4	.00	.00	1471.
10	5.84	32.62	10	25.72	228.5	.23	.01	1471.
20	5.84	32.62	20	25.72	228.6	.46	.05	1472.
30	5.84	32.62	30	25.72	228.7	.69	.10	1472.
50	5.72	32.62	50	25.73	227.5	1.14	.29	1472.
75	5.69	32.62	75	25.74	227.5	1.71	.65	1472.
100	4.62	33.05	99	26.19	184.2	2.24	1.12	1468.
125	4.36	33.32	124	26.44	161.1	2.66	1.60	1468.
150	4.42	33.66	149	26.70	136.0	3.03	2.12	1469.
175	4.37	33.79	174	26.81	126.6	3.35	2.66	1470.
200	4.29	33.82	199	26.84	123.5	3.67	3.25	1470.
225	4.24	33.85	223	26.87	121.0	3.97	3.91	1470.
250	4.14	33.87	248	26.90	118.4	4.27	4.64	1470.
300	4.06	33.93	298	26.95	113.8	4.85	6.26	1471.
400	3.94	34.01	397	27.03	107.3	5.96	10.23	1472.
500	3.75	34.10	496	27.12	99.4	7.00	14.96	1473.
600	3.56	34.17	595	27.19	93.3	7.96	20.38	1474.
800	3.17	34.29	793	27.32	81.4	9.70	32.72	1475.
1000	2.87	34.37	990	27.42	73.1	11.25	46.87	1478.
1200	2.62	34.42	1188	27.48	68.1	12.65	62.64	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 22

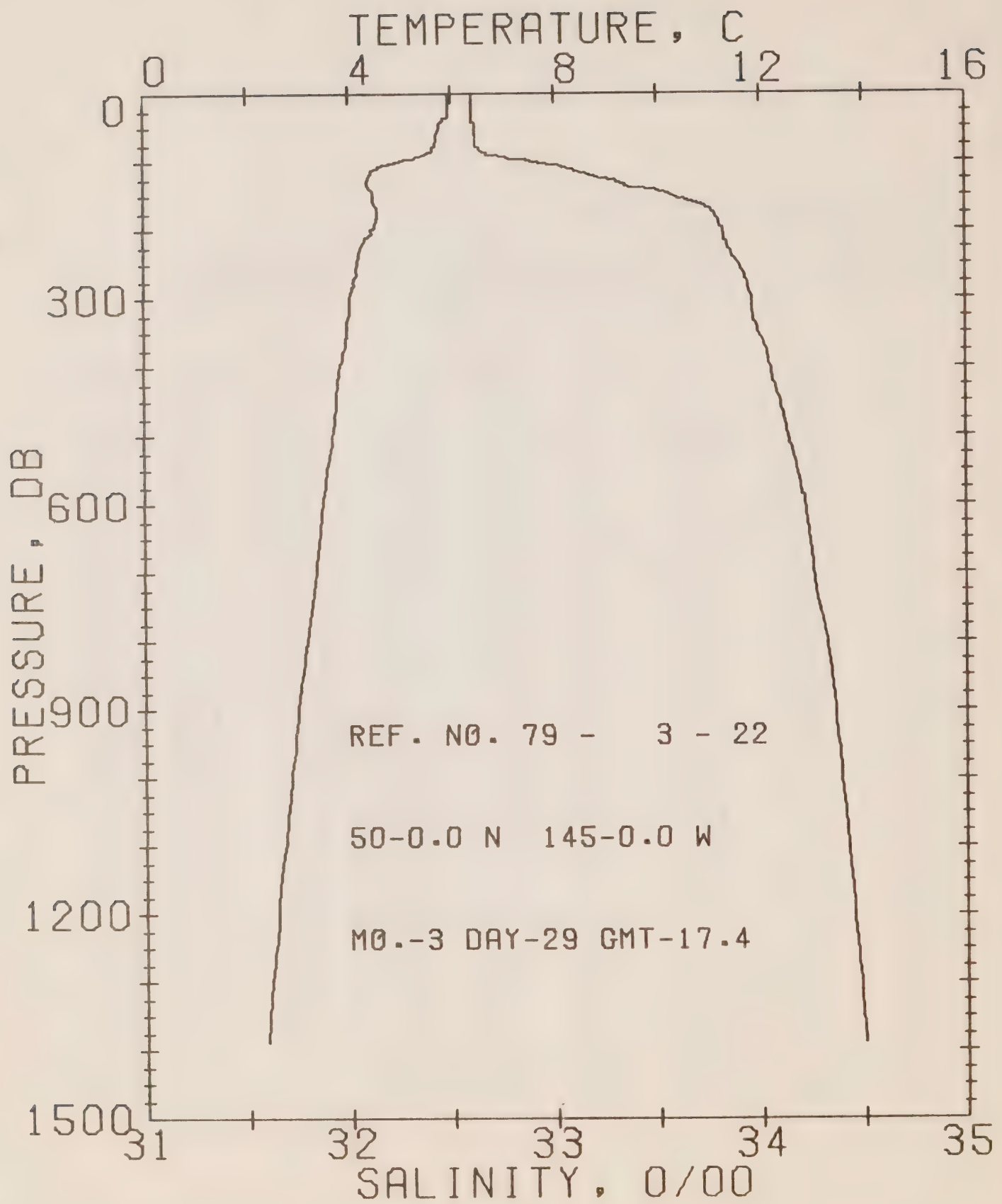
DATE 29/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.93	32.60	0	25.69	230.9	.00	.00	1472.
10	5.94	32.60	10	25.69	231.2	.23	.01	1472.
20	5.94	32.60	20	25.69	231.3	.46	.05	1472.
30	5.94	32.60	30	25.69	231.4	.69	.11	1472.
40	5.82	32.60	40	25.70	230.1	.92	.19	1472.
50	5.75	32.61	50	25.72	228.6	1.15	.29	1472.
60	5.71	32.61	60	25.73	228.3	1.38	.42	1472.
70	5.70	32.61	70	25.73	228.3	1.61	.57	1472.
80	5.63	32.63	79	25.75	226.1	1.84	.75	1472.
90	5.46	32.67	89	25.80	221.3	2.06	.94	1471.
100	4.92	32.90	99	26.05	198.2	2.27	1.14	1470.
110	4.51	33.08	109	26.23	180.5	2.46	1.34	1468.
120	4.40	33.17	119	26.31	172.7	2.64	1.55	1468.
130	4.35	33.31	129	26.43	161.8	2.80	1.76	1468.
140	4.44	33.47	139	26.55	150.8	2.96	1.98	1469.
150	4.49	33.57	149	26.62	143.9	3.11	2.20	1469.
160	4.51	33.69	159	26.71	135.2	3.25	2.42	1470.
170	4.56	33.75	169	26.76	131.0	3.38	2.64	1470.
180	4.57	33.79	179	26.79	128.5	3.51	2.87	1471.
190	4.51	33.80	189	26.80	127.3	3.64	3.11	1470.
200	4.44	33.82	199	26.83	125.1	3.76	3.36	1470.
210	4.33	33.83	208	26.84	123.3	3.89	3.62	1470.
220	4.25	33.84	218	26.86	121.8	4.01	3.89	1470.
230	4.21	33.85	228	26.88	120.5	4.13	4.17	1470.
240	4.18	33.87	238	26.89	119.0	4.25	4.46	1470.
250	4.15	33.90	248	26.92	116.7	4.37	4.75	1470.
260	4.14	33.91	258	26.93	115.5	4.48	5.05	1470.
270	4.09	33.93	268	26.95	113.8	4.60	5.36	1470.
280	4.10	33.94	278	26.96	113.3	4.71	5.68	1470.
290	4.03	33.95	288	26.97	112.0	4.83	6.01	1470.
300	4.01	33.96	298	26.98	111.0	4.94	6.34	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 22

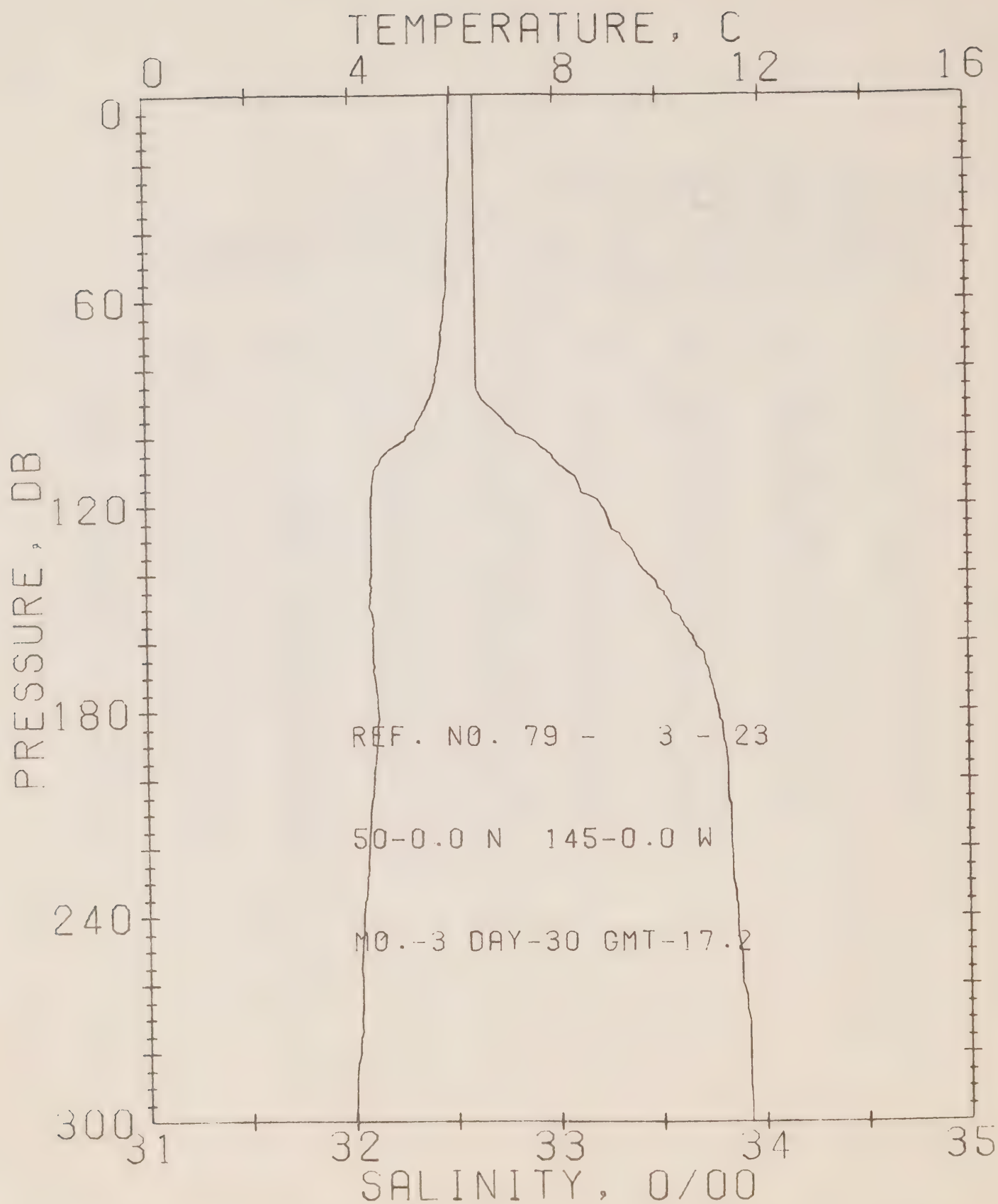
DATE 29/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.4 STATION P

RESULTS OF STP CAST 226 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.93	32.60	0	25.69	230.9	.00	.00	1472.
10	5.94	32.60	10	25.69	231.2	.23	.01	1472.
20	5.94	32.60	20	25.69	231.3	.46	.05	1472.
30	5.94	32.60	30	25.69	231.4	.69	.11	1472.
50	5.75	32.61	50	25.72	228.6	1.15	.29	1472.
75	5.68	32.61	75	25.73	228.1	1.72	.66	1472.
100	4.92	32.90	99	26.05	198.2	2.27	1.14	1470.
125	4.36	33.27	124	26.40	164.8	2.72	1.66	1468.
150	4.49	33.57	149	26.62	143.9	3.11	2.20	1469.
175	4.57	33.78	174	26.78	129.5	3.44	2.76	1470.
200	4.44	33.82	199	26.83	125.1	3.76	3.36	1470.
225	4.22	33.85	223	26.87	120.8	4.07	4.03	1470.
250	4.15	33.90	248	26.92	116.7	4.37	4.75	1470.
300	4.01	33.96	298	26.98	111.0	4.94	6.34	1470.
400	3.80	34.05	397	27.07	103.3	6.01	10.18	1471.
500	3.66	34.13	496	27.15	96.3	7.01	14.74	1472.
600	3.46	34.21	595	27.24	88.7	7.93	19.90	1473.
800	3.15	34.32	793	27.35	78.9	9.62	31.91	1475.
1000	2.82	34.39	990	27.44	71.4	11.12	45.61	1477.
1200	2.56	34.45	1188	27.51	65.2	12.48	60.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 23

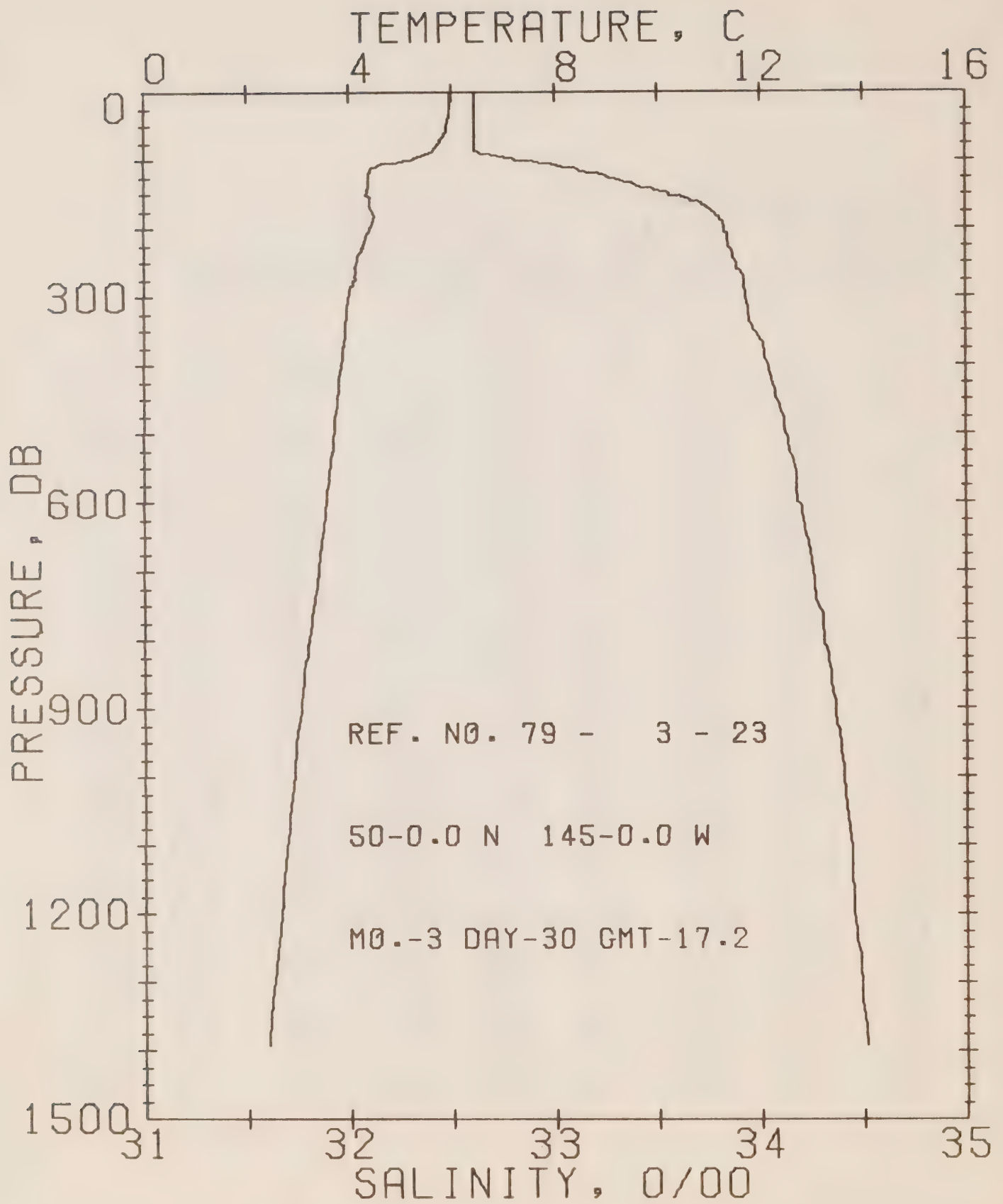
DATE 30/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.97	32.61	0	25.69	230.6	.00	.00	1472.
10	5.97	32.61	10	25.69	230.8	.23	.01	1472.
20	5.98	32.61	20	25.69	231.0	.46	.05	1472.
30	5.95	32.61	30	25.70	230.7	.69	.11	1472.
40	5.91	32.61	40	25.70	230.4	.92	.19	1472.
50	5.90	32.61	50	25.70	230.4	1.15	.29	1472.
60	5.86	32.61	60	25.71	230.0	1.38	.42	1472.
70	5.77	32.61	70	25.72	229.1	1.61	.58	1472.
80	5.68	32.61	79	25.73	228.2	1.84	.75	1472.
90	5.50	32.66	89	25.79	222.5	2.07	.95	1471.
100	5.06	32.87	99	26.01	202.0	2.28	1.15	1470.
110	4.42	33.06	109	26.23	181.1	2.47	1.36	1468.
120	4.38	33.22	119	26.36	168.7	2.65	1.56	1468.
130	4.37	33.32	129	26.44	161.2	2.81	1.77	1468.
140	4.38	33.44	139	26.53	152.4	2.97	1.99	1469.
150	4.33	33.55	149	26.62	143.7	3.12	2.21	1469.
160	4.40	33.67	159	26.71	135.5	3.26	2.43	1469.
170	4.42	33.74	169	26.76	130.6	3.39	2.65	1470.
180	4.50	33.78	179	26.79	128.2	3.52	2.88	1470.
190	4.46	33.82	189	26.82	125.5	3.65	3.12	1470.
200	4.40	33.83	199	26.84	123.9	3.77	3.37	1470.
210	4.33	33.84	208	26.85	122.5	3.89	3.62	1470.
220	4.29	33.84	218	26.86	122.0	4.02	3.89	1470.
230	4.24	33.85	228	26.87	120.8	4.14	4.17	1470.
240	4.18	33.87	238	26.89	118.9	4.26	4.46	1470.
250	4.12	33.88	248	26.91	117.4	4.38	4.75	1470.
260	4.12	33.89	258	26.92	116.7	4.49	5.06	1470.
270	4.11	33.92	268	26.94	114.8	4.61	5.37	1470.
280	4.08	33.92	278	26.94	114.5	4.72	5.69	1470.
290	4.00	33.92	288	26.95	113.6	4.84	6.02	1470.
300	3.97	33.93	298	26.96	112.8	4.95	6.36	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 23

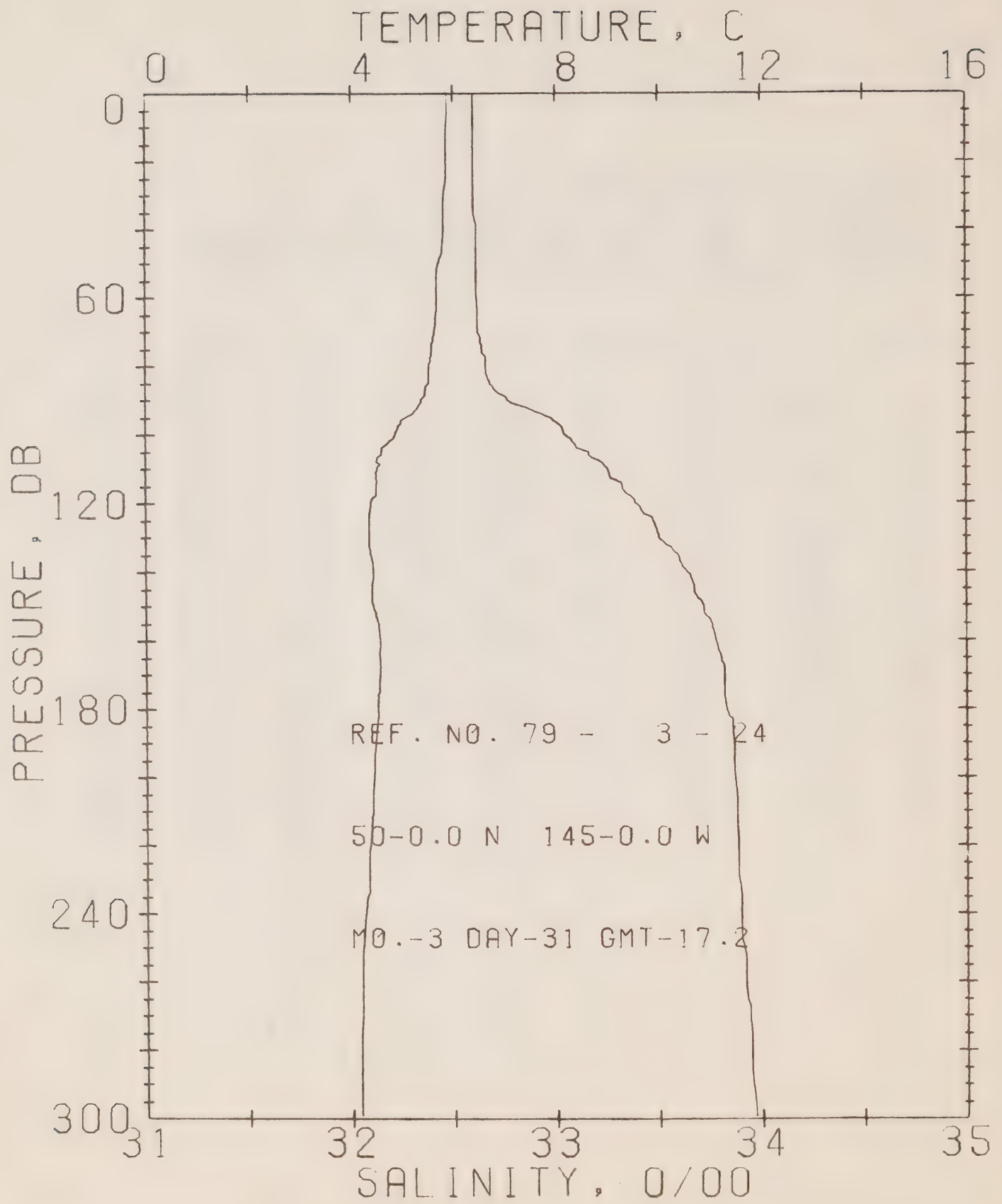
DATE 30/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 236 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.97	32.61	0	25.69	230.6	.00	.00	1472.
10	5.97	32.61	10	25.69	230.8	.23	.01	1472.
20	5.98	32.61	20	25.69	231.0	.46	.05	1472.
30	5.95	32.61	30	25.70	230.7	.69	.11	1472.
50	5.90	32.61	50	25.70	230.4	1.15	.29	1472.
75	5.74	32.61	75	25.72	228.8	1.73	.66	1472.
100	5.06	32.87	99	26.01	202.0	2.28	1.15	1470.
125	4.36	33.26	124	26.39	165.8	2.73	1.67	1468.
150	4.33	33.55	149	26.62	143.7	3.12	2.21	1469.
175	4.46	33.76	174	26.78	129.3	3.45	2.76	1470.
200	4.40	33.83	199	26.84	123.9	3.77	3.37	1470.
225	4.27	33.85	223	26.87	121.3	4.08	4.03	1470.
250	4.12	33.88	248	26.91	117.4	4.38	4.75	1470.
300	3.97	33.93	298	26.96	112.8	4.95	6.36	1470.
400	3.84	34.03	397	27.06	104.5	6.04	10.25	1471.
500	3.69	34.12	496	27.14	97.4	7.05	14.86	1473.
600	3.54	34.18	595	27.20	92.0	7.99	20.13	1474.
800	3.20	34.31	793	27.34	80.1	9.70	32.31	1476.
1000	2.89	34.40	990	27.44	71.4	11.21	46.07	1478.
1200	2.64	34.45	1188	27.50	66.0	12.57	61.36	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 24

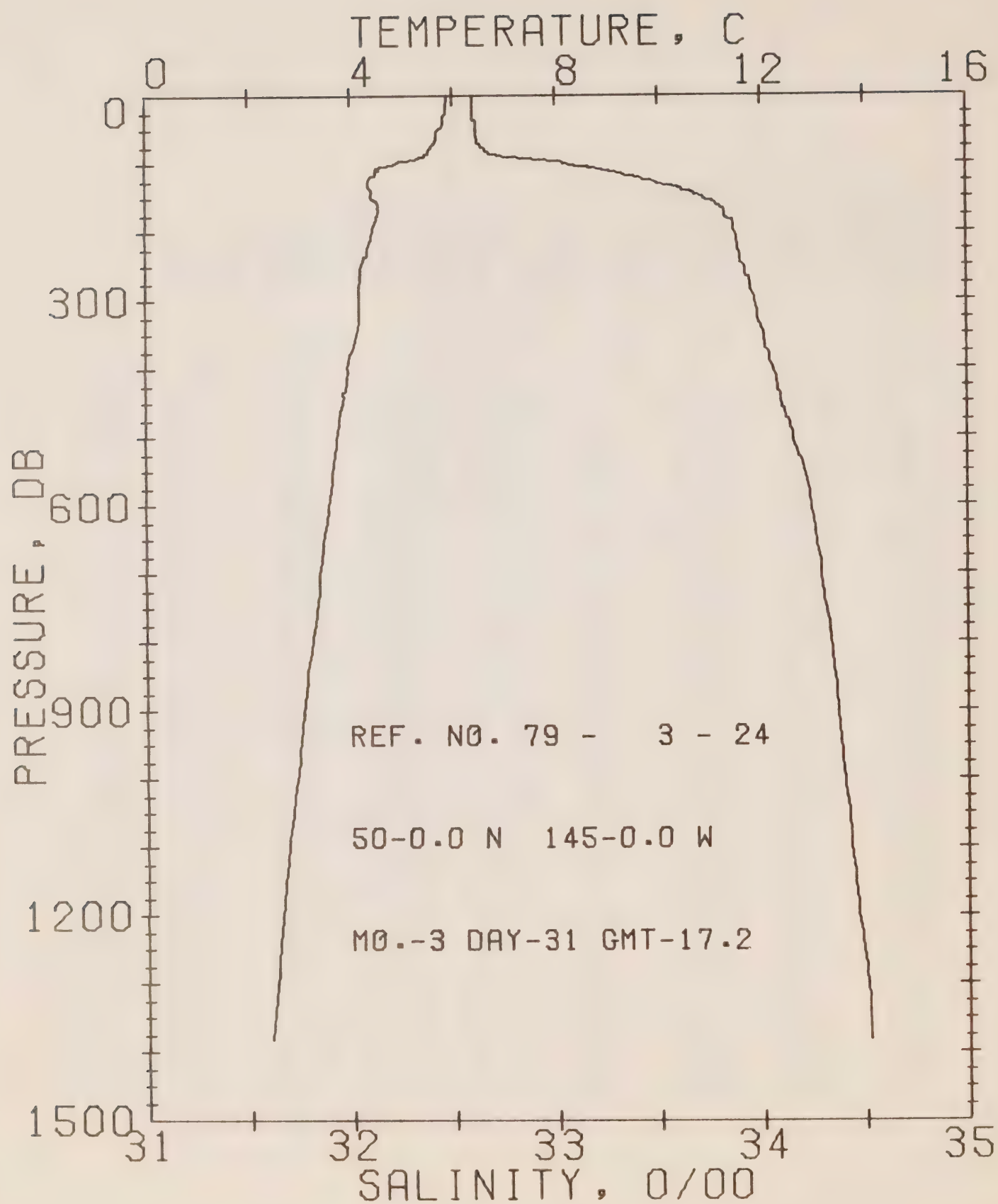
DATE 31/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 148 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.60	0	25.70	230.5	.00	.00	1471.
10	5.88	32.60	10	25.70	230.5	.23	.01	1472.
20	5.87	32.60	20	25.70	230.4	.46	.05	1472.
30	5.83	32.60	30	25.70	230.1	.69	.11	1472.
40	5.80	32.61	40	25.71	229.1	.92	.19	1472.
50	5.70	32.61	50	25.73	228.1	1.15	.29	1472.
60	5.68	32.61	60	25.73	227.7	1.38	.42	1472.
70	5.64	32.62	70	25.74	226.8	1.60	.57	1472.
80	5.52	32.66	79	25.79	222.6	1.83	.74	1471.
90	5.37	32.77	89	25.89	212.8	2.05	.93	1471.
100	4.86	33.04	99	26.16	187.1	2.25	1.12	1469.
110	4.52	33.25	109	26.37	167.8	2.42	1.31	1468.
120	4.38	33.39	119	26.49	156.0	2.59	1.50	1468.
130	4.35	33.50	129	26.58	147.5	2.74	1.69	1468.
140	4.42	33.63	139	26.68	138.2	2.88	1.89	1469.
150	4.44	33.72	149	26.75	132.1	3.01	2.09	1469.
160	4.55	33.78	159	26.78	128.9	3.14	2.30	1470.
170	4.55	33.82	169	26.81	125.9	3.27	2.51	1470.
180	4.52	33.83	179	26.83	124.7	3.40	2.73	1470.
190	4.46	33.87	189	26.86	121.5	3.52	2.97	1470.
200	4.42	33.87	199	26.87	120.9	3.64	3.21	1470.
210	4.39	33.88	208	26.88	120.2	3.76	3.46	1470.
220	4.34	33.89	218	26.89	119.0	3.88	3.72	1470.
230	4.32	33.89	228	26.90	118.7	4.00	3.99	1470.
240	4.25	33.90	238	26.91	117.5	4.12	4.28	1470.
250	4.21	33.91	248	26.92	116.2	4.23	4.57	1470.
260	4.20	33.92	258	26.93	115.6	4.35	4.87	1470.
270	4.19	33.94	268	26.95	114.1	4.46	5.18	1471.
280	4.16	33.95	278	26.96	113.1	4.58	5.50	1471.
290	4.16	33.96	288	26.96	112.7	4.69	5.82	1471.
300	4.16	33.97	298	26.97	111.8	4.80	6.16	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 24

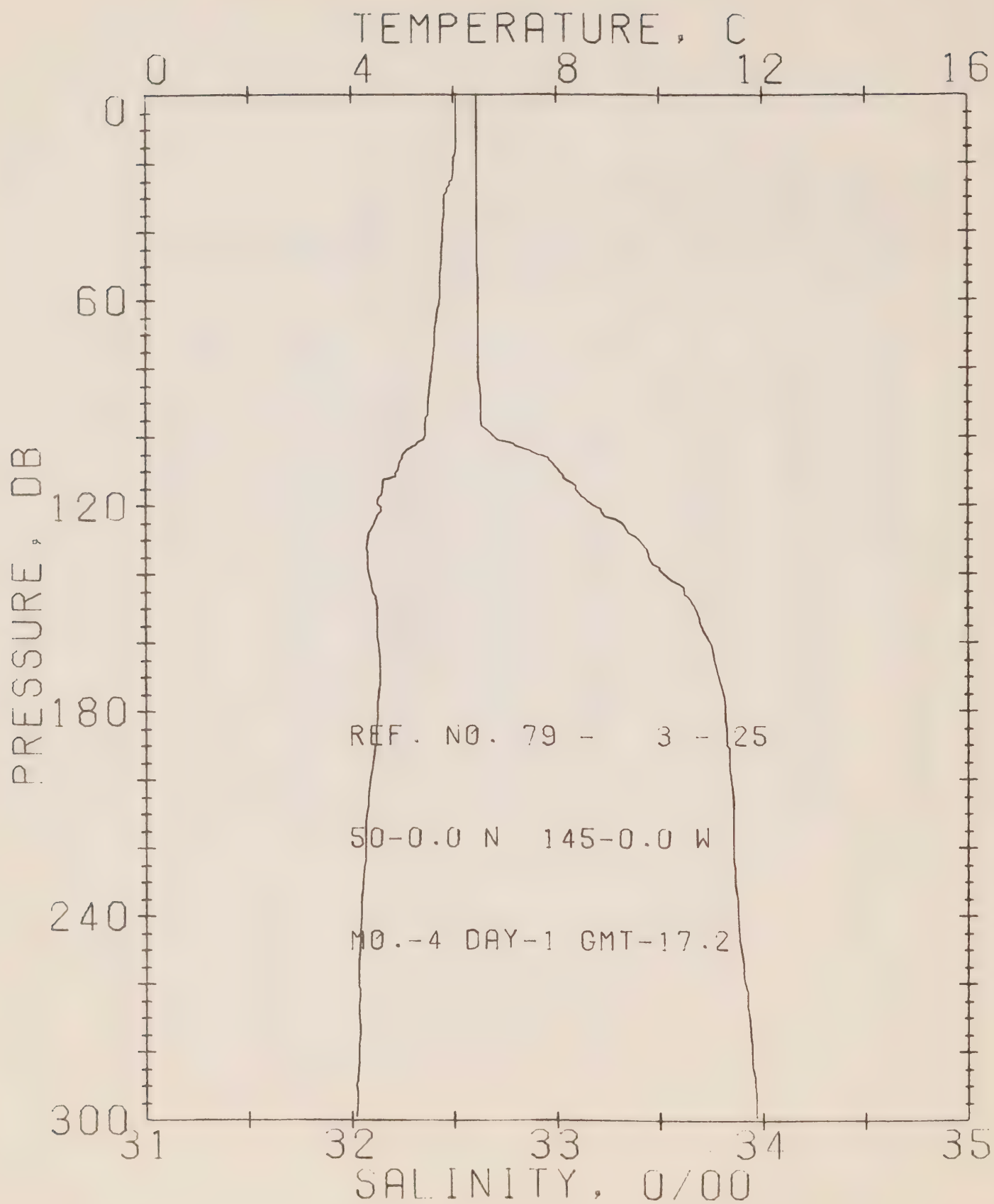
DATE 31/ 3/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF SIP CAST 258 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

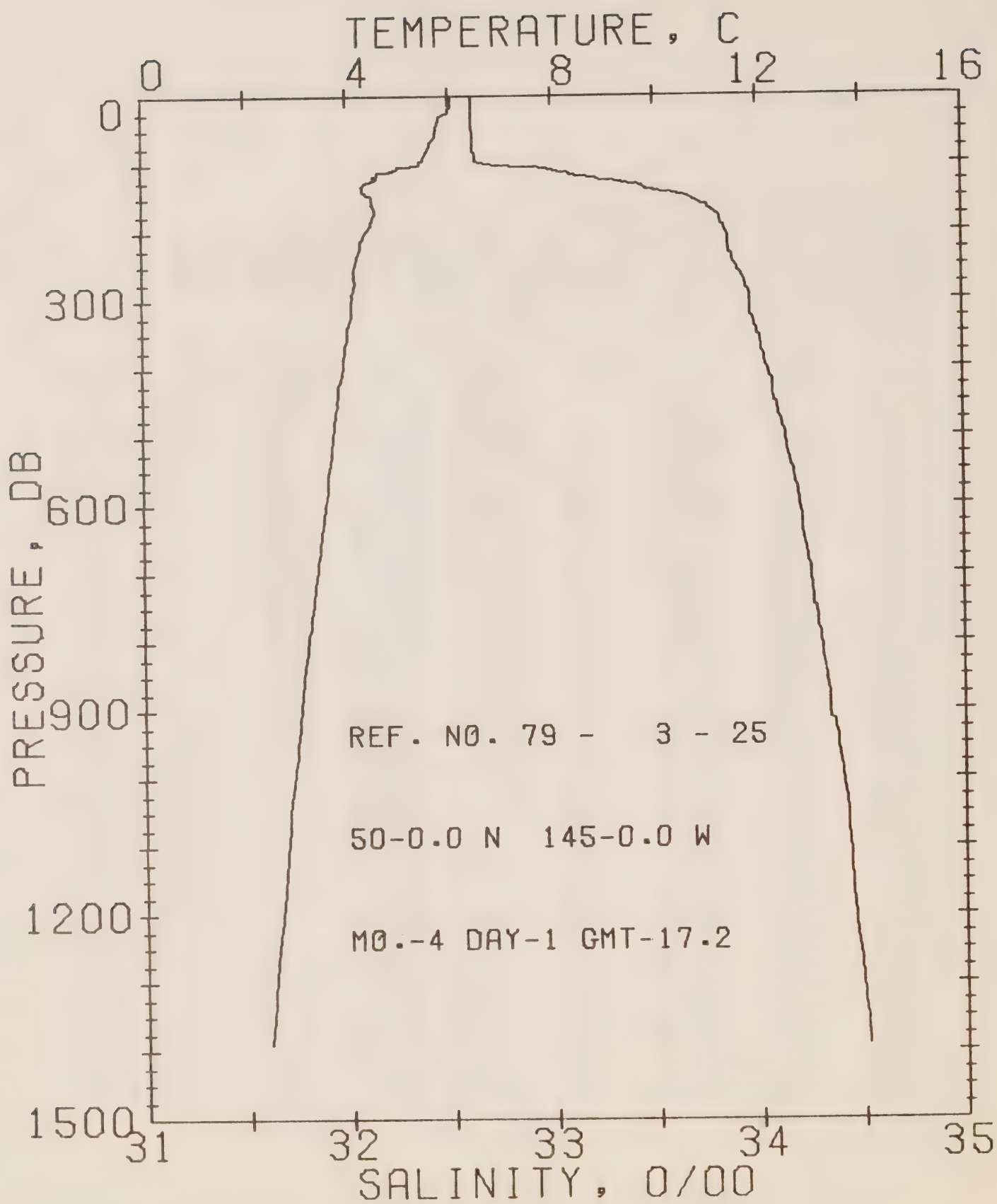
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.89	32.60	0	25.70	230.5	.00	.00	1471.
10	5.88	32.60	10	25.70	230.5	.23	.01	1472.
20	5.87	32.60	20	25.70	230.4	.46	.05	1472.
30	5.83	32.60	30	25.70	230.1	.69	.11	1472.
50	5.70	32.61	50	25.73	228.1	1.15	.29	1472.
75	5.57	32.64	75	25.77	224.7	1.72	.65	1471.
100	4.86	33.04	99	26.16	187.1	2.25	1.12	1469.
125	4.35	33.46	124	26.56	149.3	2.66	1.60	1468.
150	4.44	33.72	149	26.75	132.1	3.01	2.09	1469.
175	4.53	33.82	174	26.82	125.8	3.33	2.62	1470.
200	4.42	33.87	199	26.87	120.9	3.64	3.21	1470.
225	4.32	33.89	223	26.89	118.8	3.94	3.85	1470.
250	4.21	33.91	248	26.92	116.2	4.23	4.57	1470.
300	4.16	33.97	298	26.97	111.8	4.80	6.16	1471.
400	3.93	34.05	397	27.06	103.9	5.89	10.03	1472.
500	3.72	34.15	496	27.16	95.4	6.89	14.60	1473.
600	3.56	34.24	595	27.25	87.9	7.80	19.70	1474.
800	3.23	34.34	793	27.36	78.4	9.46	31.50	1476.
1000	2.90	34.40	990	27.44	71.6	10.95	45.21	1478.
1200	2.62	34.46	1188	27.51	65.2	12.31	60.43	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 25 DATE 1/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 132 POINTS TAKEN FROM ANALOG TRACE
 GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.05	32.61	0	25.68	231.6	.00	.00	1472.
10	6.05	32.61	10	25.68	231.7	.23	.01	1472.
20	6.00	32.61	20	25.69	231.3	.46	.05	1472.
30	5.82	32.61	30	25.71	229.2	.69	.11	1472.
40	5.78	32.61	40	25.72	228.9	.92	.19	1472.
50	5.75	32.61	50	25.72	228.5	1.15	.29	1472.
60	5.73	32.62	60	25.73	227.8	1.38	.42	1472.
70	5.63	32.62	70	25.74	226.7	1.61	.57	1472.
80	5.59	32.62	79	25.75	226.3	1.83	.74	1472.
90	5.50	32.63	89	25.77	224.7	2.06	.94	1471.
100	5.43	32.69	99	25.82	219.5	2.28	1.16	1471.
110	4.91	33.01	109	26.13	189.9	2.48	1.37	1470.
120	4.51	33.18	119	26.31	173.1	2.67	1.58	1469.
130	4.31	33.40	129	26.51	154.6	2.83	1.79	1468.
140	4.34	33.52	139	26.60	146.0	2.98	2.00	1469.
150	4.51	33.67	149	26.70	136.6	3.12	2.21	1470.
160	4.52	33.74	159	26.75	131.6	3.25	2.42	1470.
170	4.55	33.79	169	26.79	128.2	3.38	2.64	1470.
180	4.52	33.82	179	26.82	125.8	3.51	2.86	1470.
190	4.47	33.83	189	26.83	124.6	3.64	3.10	1470.
200	4.36	33.85	199	26.86	121.9	3.76	3.34	1470.
210	4.30	33.86	208	26.87	120.7	3.88	3.60	1470.
220	4.26	33.86	218	26.88	120.4	4.00	3.86	1470.
230	4.22	33.87	228	26.89	119.3	4.12	4.14	1470.
240	4.19	33.88	238	26.90	118.2	4.24	4.42	1470.
250	4.15	33.90	248	26.92	116.6	4.36	4.71	1470.
260	4.13	33.92	258	26.93	115.1	4.47	5.01	1470.
270	4.14	33.93	268	26.95	114.0	4.59	5.32	1470.
280	4.13	33.95	278	26.96	112.8	4.70	5.64	1471.
290	4.09	33.96	288	26.97	111.7	4.81	5.97	1471.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 25

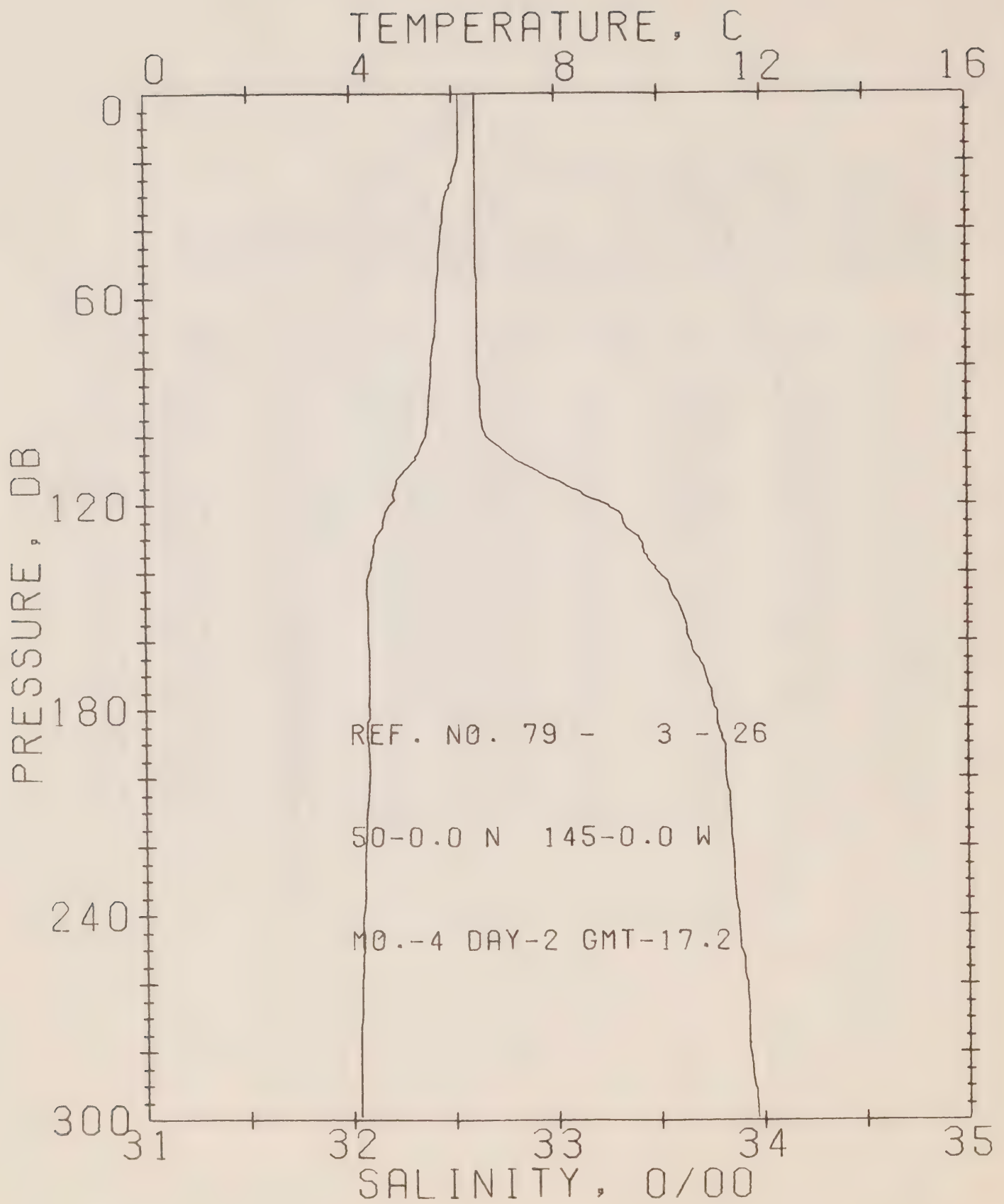
DATE 1/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.05	32.61	0	25.68	231.6	.00	.00	1472.
10	6.05	32.61	10	25.68	231.7	.23	.01	1472.
20	6.00	32.61	20	25.69	231.3	.46	.05	1472.
30	5.82	32.61	30	25.71	229.2	.69	.11	1472.
50	5.75	32.61	50	25.72	228.5	1.15	.29	1472.
75	5.62	32.62	75	25.74	226.7	1.72	.65	1472.
100	5.43	32.69	99	25.82	219.5	2.28	1.16	1471.
125	4.46	33.32	124	26.43	162.1	2.75	1.69	1469.
150	4.51	33.67	149	26.70	136.6	3.12	2.21	1470.
175	4.54	33.81	174	26.81	126.4	3.45	2.75	1470.
200	4.36	33.85	199	26.86	121.9	3.76	3.34	1470.
225	4.25	33.86	223	26.88	120.0	4.06	4.00	1470.
250	4.15	33.90	248	26.92	116.6	4.36	4.71	1470.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.
400	3.90	34.04	397	27.06	104.5	6.01	10.16	1472.
500	3.70	34.13	496	27.15	96.5	7.01	14.76	1473.
600	3.55	34.20	595	27.22	90.6	7.95	20.00	1474.
800	3.18	34.30	793	27.34	80.4	9.66	32.20	1476.
1000	2.89	34.41	990	27.44	71.0	11.18	46.08	1478.
1200	2.64	34.46	1188	27.51	65.5	12.54	61.29	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 26

DATE 2/ 4/79

POSITION 50- .0N, 145- .0W

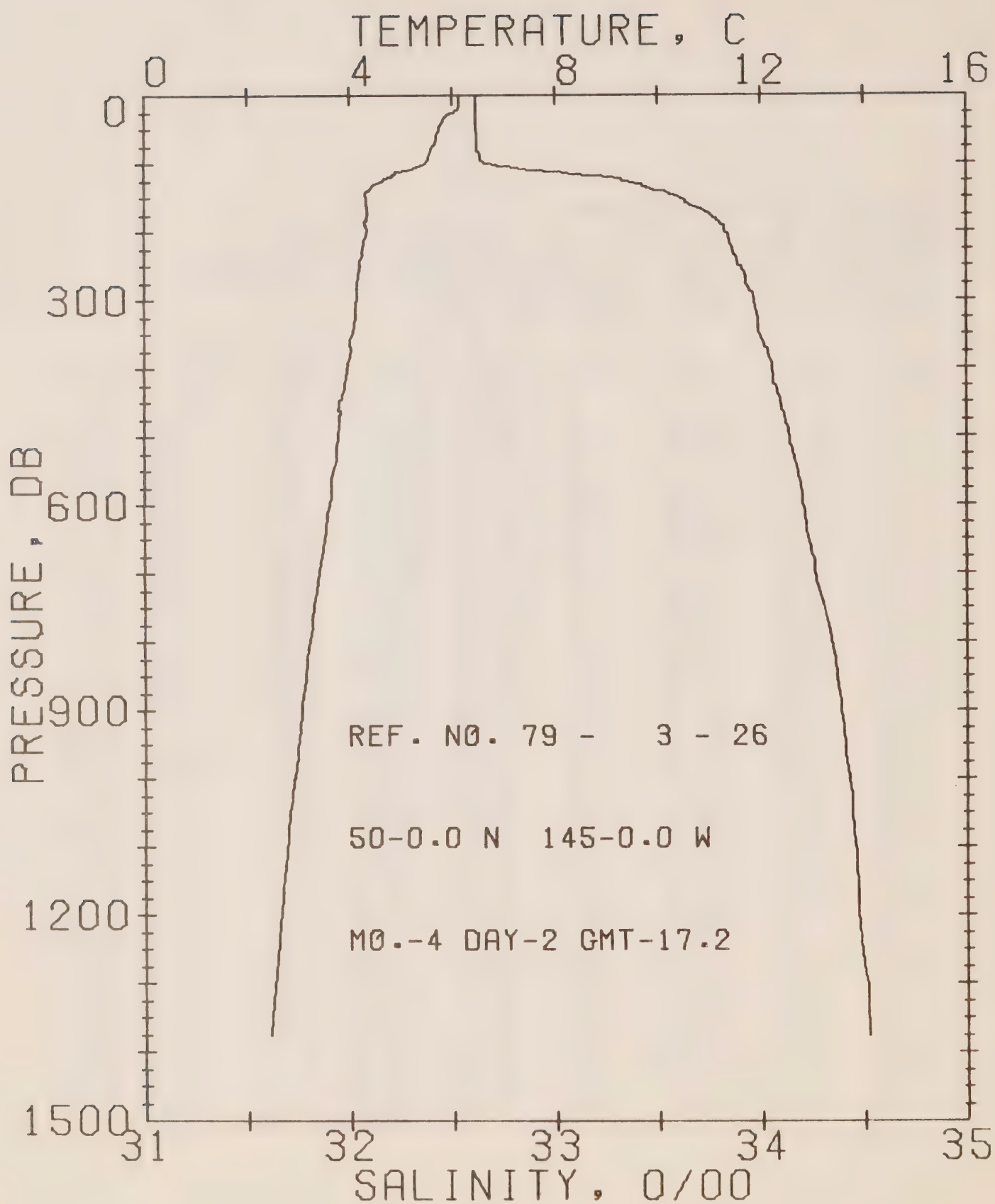
GMT 17.2

STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.14	32.61	0	25.67	232.6	.00	.00	1472.
10	6.14	32.61	10	25.67	232.7	.23	.01	1473.
20	6.11	32.61	20	25.68	232.5	.47	.05	1473.
30	5.87	32.61	30	25.71	229.8	.70	.11	1472.
40	5.79	32.61	40	25.72	228.9	.93	.19	1472.
50	5.72	32.61	50	25.72	228.3	1.15	.29	1472.
60	5.68	32.62	60	25.74	227.2	1.38	.42	1472.
70	5.66	32.62	70	25.74	227.0	1.61	.57	1472.
80	5.57	32.62	79	25.75	226.2	1.84	.74	1472.
90	5.53	32.63	89	25.76	225.0	2.06	.94	1471.
100	5.46	32.66	99	25.79	222.1	2.29	1.16	1471.
110	5.04	32.91	109	26.04	198.8	2.50	1.38	1470.
120	4.75	33.25	119	26.34	170.3	2.68	1.60	1470.
130	4.46	33.41	129	26.50	155.4	2.85	1.81	1469.
140	4.34	33.50	139	26.58	147.5	3.00	2.02	1469.
150	4.31	33.60	149	26.66	140.1	3.14	2.23	1469.
160	4.33	33.65	159	26.70	136.3	3.28	2.45	1469.
170	4.35	33.72	169	26.76	131.2	3.41	2.67	1469.
180	4.35	33.78	179	26.80	127.0	3.54	2.90	1470.
190	4.33	33.82	189	26.84	123.8	3.67	3.14	1470.
200	4.34	33.82	199	26.84	123.8	3.79	3.39	1470.
210	4.29	33.84	208	26.86	121.7	3.91	3.64	1470.
220	4.26	33.86	218	26.87	120.8	4.04	3.91	1470.
230	4.24	33.86	228	26.88	119.9	4.16	4.18	1470.
240	4.21	33.88	238	26.90	118.5	4.28	4.47	1470.
250	4.20	33.89	248	26.91	117.4	4.39	4.76	1470.
260	4.17	33.92	258	26.93	115.3	4.51	5.07	1470.
270	4.14	33.93	268	26.94	114.4	4.62	5.38	1470.
280	4.12	33.93	278	26.95	114.0	4.74	5.70	1471.
290	4.13	33.95	288	26.96	112.6	4.85	6.03	1471.
300	4.13	33.97	298	26.98	111.5	4.96	6.36	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 26

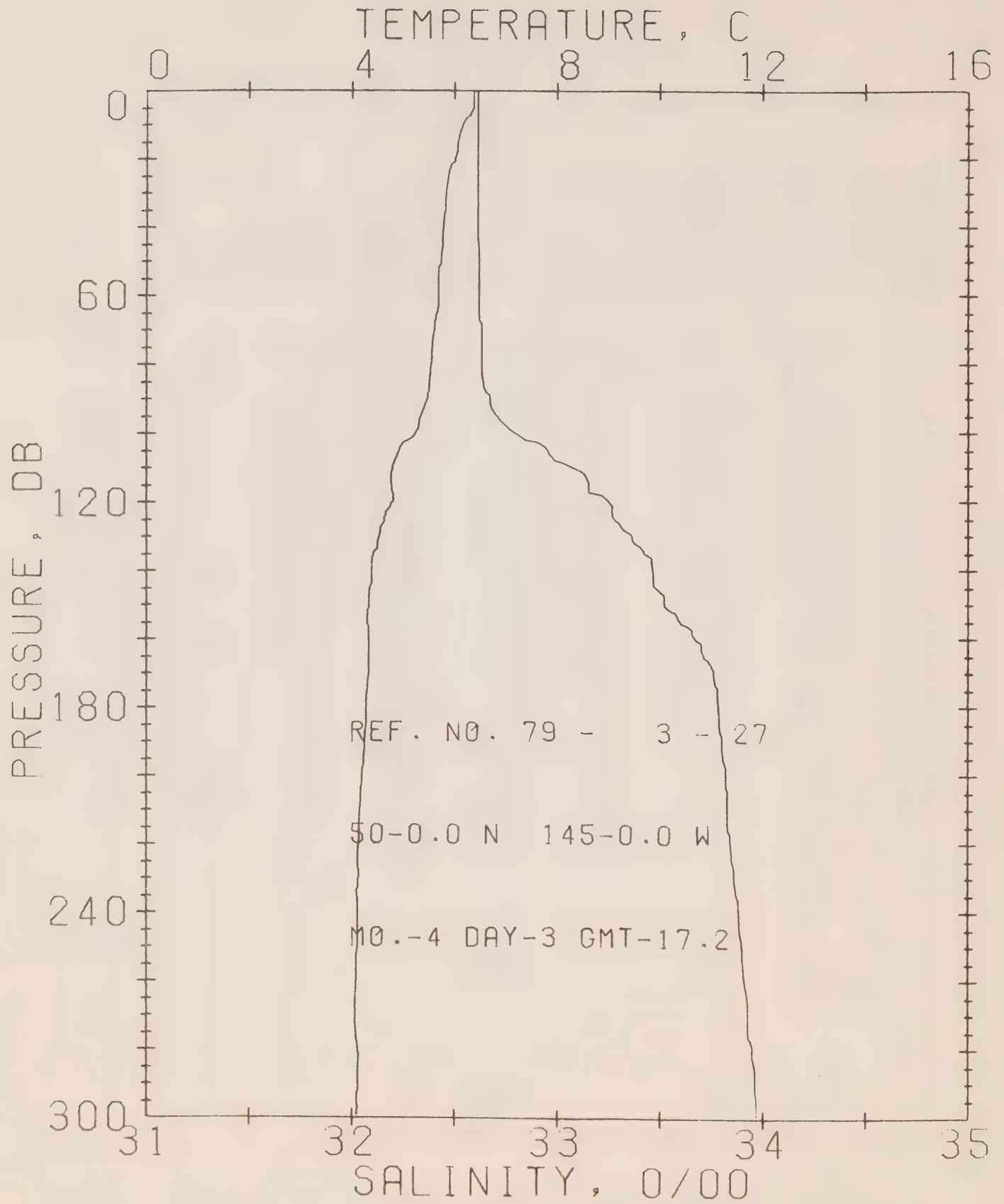
DATE 2/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

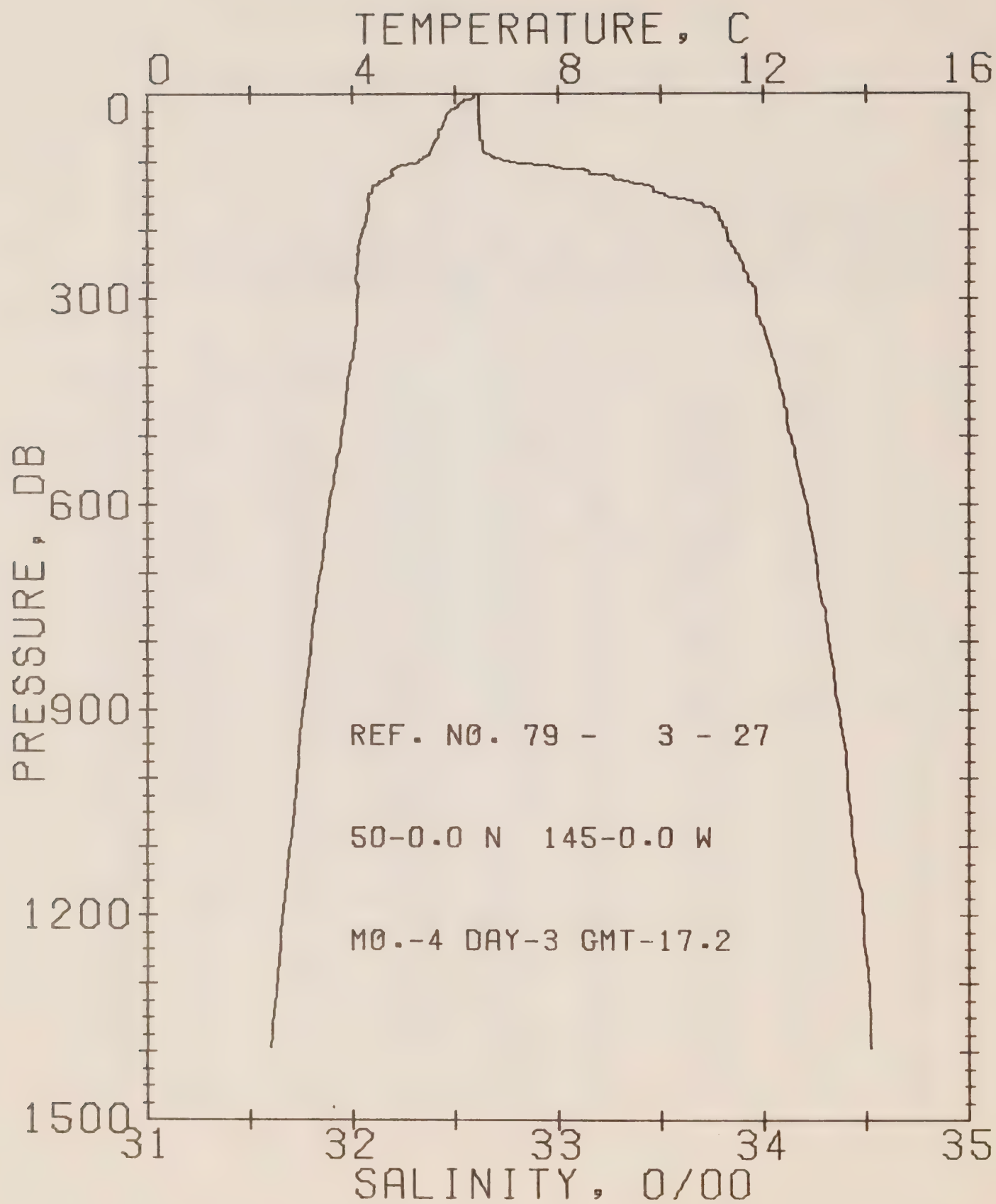
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.14	32.61	0	25.67	232.6	.00	.00	1472.
10	6.14	32.61	10	25.67	232.7	.23	.01	1473.
20	6.11	32.61	20	25.68	232.5	.47	.05	1473.
30	5.87	32.61	30	25.71	229.8	.70	.11	1472.
50	5.72	32.61	50	25.72	228.3	1.15	.29	1472.
75	5.60	32.62	75	25.75	226.5	1.72	.65	1472.
100	5.46	32.66	99	25.79	222.1	2.29	1.16	1471.
125	4.61	33.33	124	26.42	162.9	2.77	1.70	1469.
150	4.31	33.60	149	26.66	140.1	3.14	2.23	1469.
175	4.35	33.75	174	26.76	129.2	3.48	2.79	1469.
200	4.34	33.82	199	26.84	123.8	3.79	3.39	1470.
225	4.25	33.86	223	26.88	120.3	4.10	4.04	1470.
250	4.20	33.89	248	26.91	117.4	4.39	4.76	1470.
300	4.13	33.97	298	26.98	111.5	4.96	6.36	1471.
400	3.95	34.05	397	27.06	104.5	6.05	10.22	1472.
500	3.76	34.14	496	27.15	96.7	7.05	14.83	1473.
600	3.59	34.20	595	27.21	91.0	7.99	20.07	1474.
800	3.19	34.34	793	27.37	77.6	9.68	32.08	1476.
1000	2.89	34.43	990	27.46	69.2	11.14	45.48	1478.
1200	2.63	34.47	1188	27.52	64.5	12.47	60.37	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 27 DATE 3/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.38	32.61	0	25.64	235.5	.00	.00	1473.
10	6.16	32.61	10	25.67	233.0	.23	.01	1473.
20	6.01	32.61	20	25.69	231.3	.47	.05	1472.
30	5.83	32.61	30	25.71	229.4	.70	.11	1472.
40	5.77	32.61	40	25.72	228.8	.93	.19	1472.
50	5.73	32.62	50	25.73	227.6	1.15	.29	1472.
60	5.68	32.62	60	25.74	227.2	1.38	.42	1472.
70	5.59	32.63	70	25.76	225.5	1.61	.57	1471.
80	5.54	32.63	79	25.76	225.1	1.83	.74	1471.
90	5.46	32.67	89	25.80	221.3	2.06	.94	1471.
100	5.22	32.80	99	25.93	209.0	2.27	1.15	1471.
110	4.77	33.07	109	26.20	184.0	2.47	1.36	1469.
120	4.80	33.25	119	26.34	170.9	2.65	1.56	1470.
130	4.52	33.36	129	26.46	159.4	2.81	1.77	1469.
140	4.37	33.47	139	26.56	150.0	2.97	1.99	1469.
150	4.32	33.52	149	26.60	145.9	3.11	2.20	1469.
160	4.31	33.67	159	26.72	134.6	3.25	2.42	1469.
170	4.31	33.76	169	26.79	128.0	3.38	2.64	1469.
180	4.28	33.79	179	26.82	125.8	3.51	2.87	1469.
190	4.24	33.80	189	26.83	124.4	3.64	3.11	1469.
200	4.19	33.82	199	26.85	122.5	3.76	3.35	1469.
210	4.15	33.83	208	26.86	121.4	3.88	3.61	1469.
220	4.12	33.84	218	26.88	120.1	4.00	3.87	1469.
230	4.12	33.86	228	26.89	119.0	4.12	4.15	1470.
240	4.10	33.88	238	26.91	117.1	4.24	4.43	1470.
250	4.10	33.90	248	26.92	116.0	4.36	4.72	1470.
260	4.08	33.91	258	26.94	114.9	4.47	5.02	1470.
270	4.06	33.93	268	26.95	113.5	4.59	5.33	1470.
280	4.11	33.95	278	26.96	112.6	4.70	5.64	1470.
290	4.10	33.96	288	26.97	111.9	4.81	5.97	1471.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 27

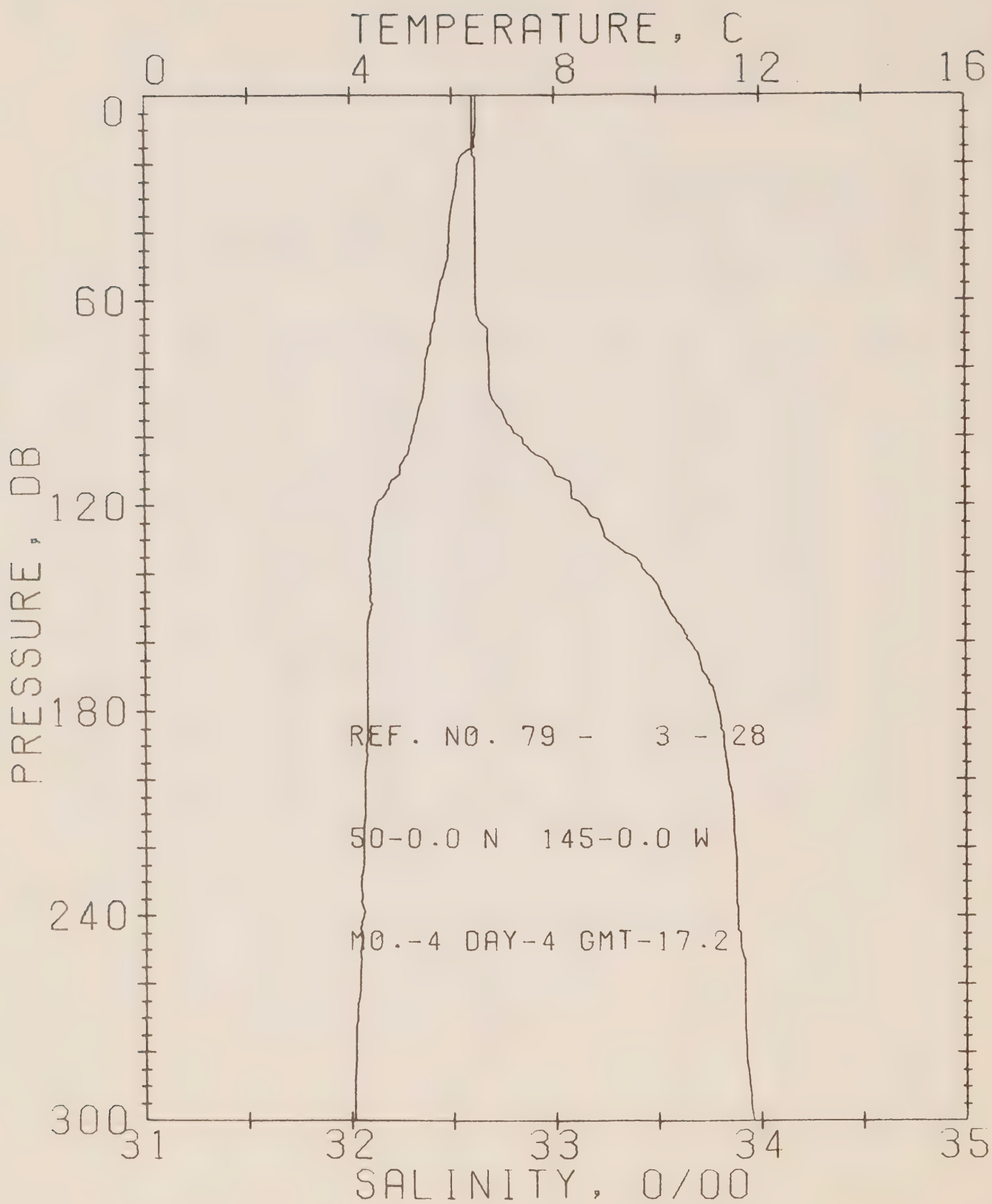
DATE 3/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 232 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.38	32.61	0	25.64	235.5	.00	.00	1473.
10	6.16	32.61	10	25.67	233.0	.23	.01	1473.
20	6.01	32.61	20	25.69	231.3	.47	.05	1472.
30	5.83	32.61	30	25.71	229.4	.70	.11	1472.
50	5.73	32.62	50	25.73	227.6	1.15	.29	1472.
75	5.56	32.63	75	25.76	225.2	1.72	.65	1471.
100	5.22	32.80	99	25.93	209.0	2.27	1.15	1471.
125	4.62	33.28	124	26.38	166.8	2.73	1.67	1469.
150	4.32	33.52	149	26.60	145.9	3.11	2.20	1469.
175	4.30	33.78	174	26.81	126.4	3.45	2.76	1469.
200	4.19	33.82	199	26.85	122.5	3.76	3.35	1469.
225	4.11	33.85	223	26.89	119.4	4.06	4.01	1469.
250	4.10	33.90	248	26.92	116.0	4.36	4.72	1470.
300	4.09	33.97	298	26.98	111.1	4.92	6.30	1471.
400	3.94	34.06	397	27.07	103.8	6.01	10.16	1472.
500	3.77	34.13	496	27.14	97.4	7.01	14.77	1473.
600	3.54	34.21	595	27.23	89.9	7.95	20.02	1474.
800	3.17	34.32	793	27.35	79.4	9.64	32.05	1476.
1000	2.91	34.41	990	27.44	70.9	11.14	45.75	1478.
1200	2.63	34.49	1188	27.53	63.4	12.49	60.86	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 28

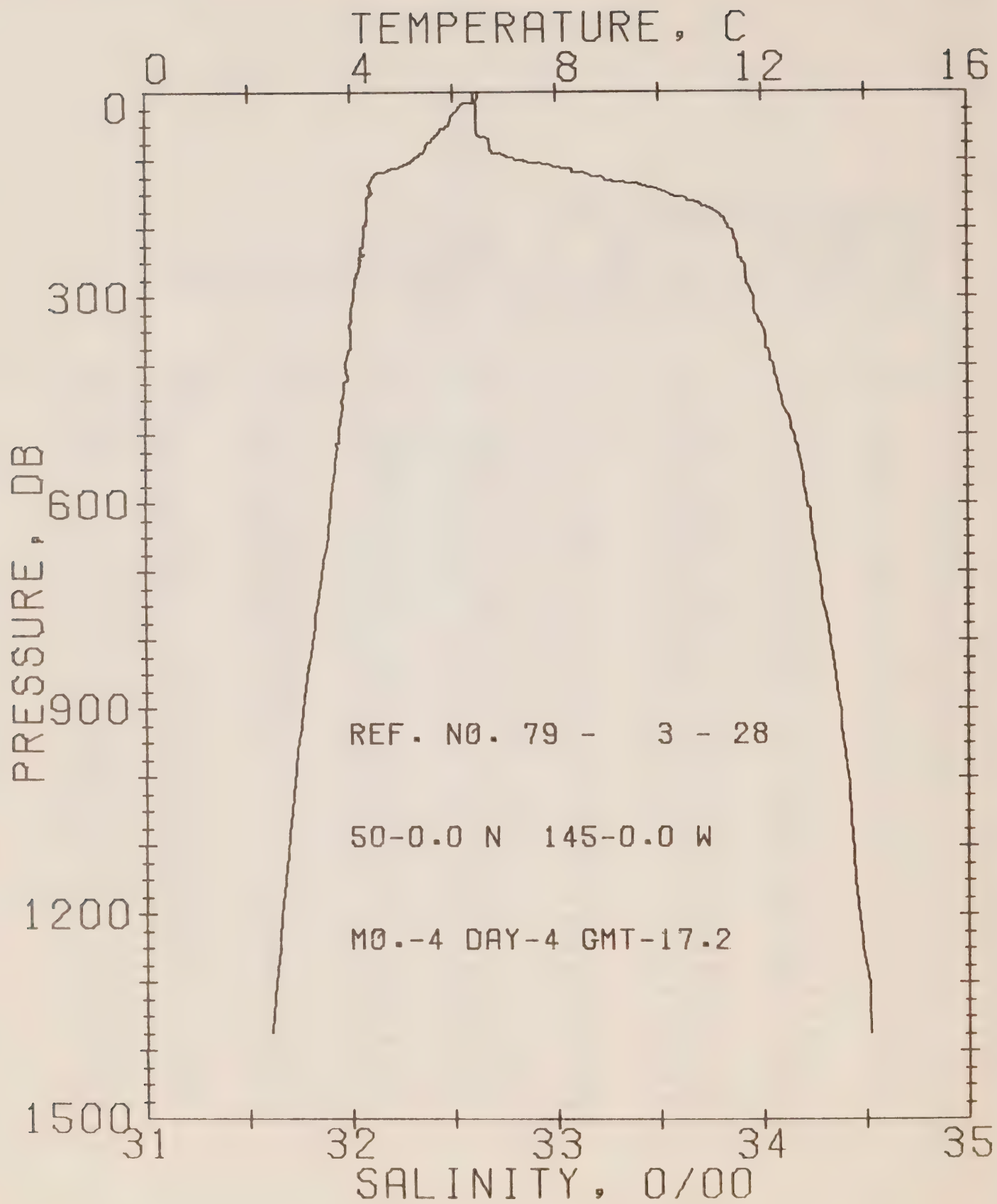
DATE 4/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 149 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.47	32.60	0	25.62	237.3	.00	.00	1474.
10	6.47	32.60	10	25.62	237.4	.24	.01	1474.
20	6.13	32.61	20	25.67	232.8	.47	.05	1473.
30	6.03	32.61	30	25.69	231.7	.71	.11	1473.
40	5.95	32.61	40	25.70	230.8	.94	.19	1472.
50	5.87	32.61	50	25.71	230.0	1.17	.30	1472.
60	5.70	32.61	60	25.73	228.2	1.40	.42	1472.
70	5.58	32.67	70	25.79	222.4	1.62	.57	1471.
80	5.47	32.68	79	25.81	220.5	1.84	.74	1471.
90	5.39	32.70	89	25.84	217.9	2.06	.93	1471.
100	5.20	32.84	99	25.97	205.7	2.28	1.14	1471.
110	4.96	32.99	109	26.12	191.6	2.47	1.35	1470.
120	4.51	33.13	119	26.28	176.4	2.66	1.57	1468.
130	4.41	33.25	129	26.38	166.9	2.83	1.78	1468.
140	4.40	33.45	139	26.54	151.9	2.99	2.00	1469.
150	4.39	33.55	149	26.62	144.3	3.13	2.22	1469.
160	4.32	33.66	159	26.71	135.5	3.27	2.44	1469.
170	4.33	33.74	169	26.77	129.7	3.41	2.66	1469.
180	4.33	33.80	179	26.82	125.5	3.53	2.89	1470.
190	4.29	33.82	189	26.84	123.4	3.66	3.12	1470.
200	4.26	33.84	199	26.86	121.7	3.78	3.37	1470.
210	4.26	33.87	208	26.88	119.7	3.90	3.62	1470.
220	4.24	33.88	218	26.89	119.0	4.02	3.88	1470.
230	4.19	33.88	228	26.90	118.3	4.14	4.15	1470.
240	4.24	33.89	238	26.90	118.1	4.26	4.44	1470.
250	4.18	33.90	248	26.92	116.4	4.38	4.73	1470.
260	4.16	33.92	258	26.93	115.2	4.49	5.03	1470.
270	4.10	33.92	268	26.94	114.7	4.61	5.34	1470.
280	4.07	33.93	278	26.95	113.7	4.72	5.66	1470.
290	4.04	33.94	288	26.97	112.5	4.83	5.99	1470.
300	4.06	33.96	298	26.98	111.5	4.94	6.33	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 28

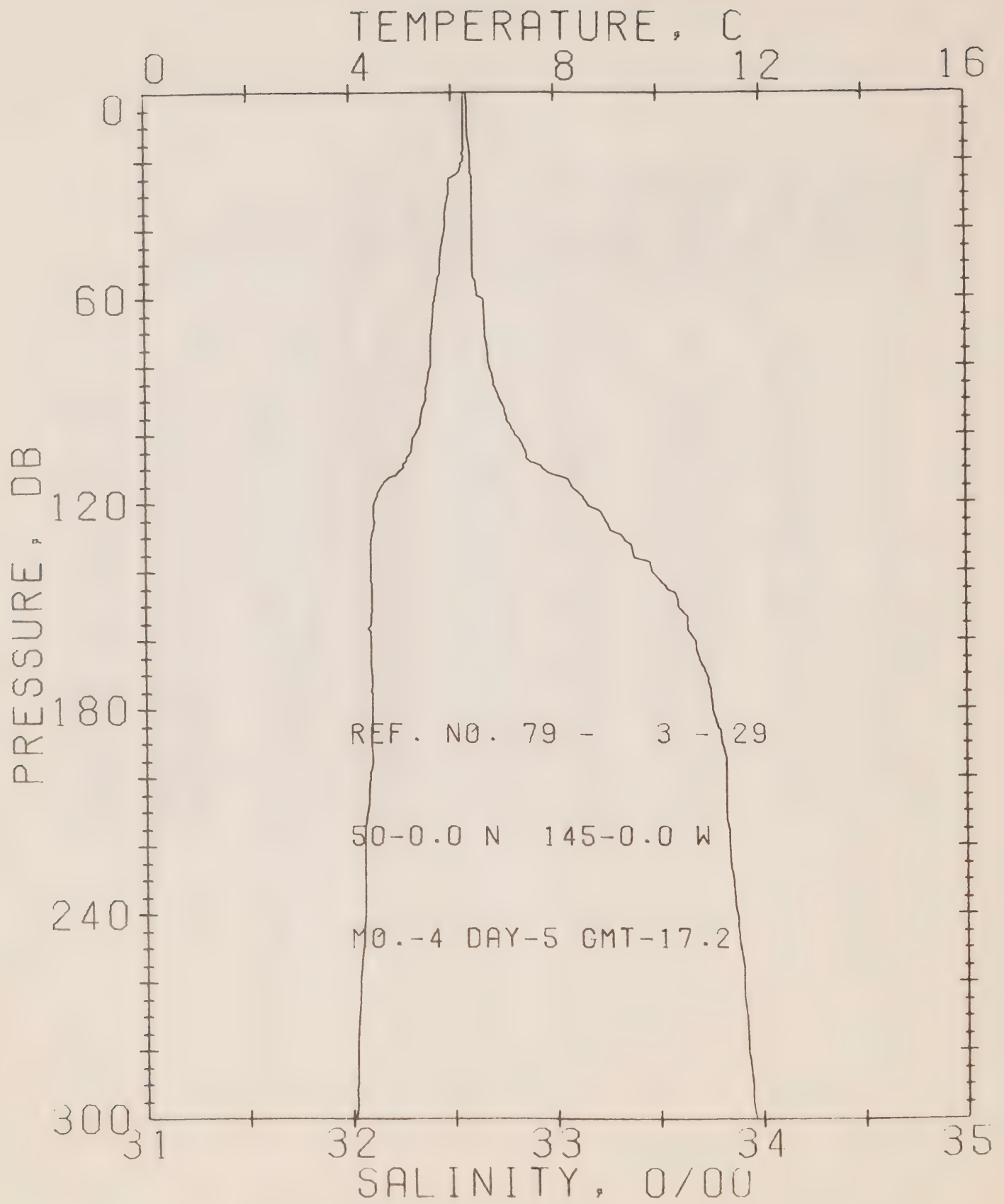
DATE 4/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.47	32.60	0	25.62	237.3	.00	.00	1474.
10	6.47	32.60	10	25.62	237.4	.24	.01	1474.
20	6.13	32.61	20	25.67	232.8	.47	.05	1473.
30	6.03	32.61	30	25.69	231.7	.71	.11	1473.
50	5.87	32.61	50	25.71	230.0	1.17	.30	1472.
75	5.51	32.67	75	25.80	221.5	1.73	.66	1471.
100	5.20	32.84	99	25.97	205.7	2.28	1.14	1471.
125	4.43	33.22	124	26.35	169.5	2.75	1.68	1468.
150	4.39	33.55	149	26.62	144.3	3.13	2.22	1469.
175	4.33	33.78	174	26.80	126.9	3.47	2.78	1469.
200	4.26	33.84	199	26.86	121.7	3.78	3.37	1470.
225	4.23	33.88	223	26.90	118.6	4.08	4.02	1470.
250	4.18	33.90	248	26.92	116.4	4.38	4.73	1470.
300	4.06	33.96	298	26.98	111.5	4.94	6.33	1471.
400	3.90	34.05	397	27.06	103.9	6.02	10.17	1472.
500	3.77	34.15	496	27.16	95.9	7.03	14.76	1473.
600	3.60	34.22	595	27.23	89.9	7.95	19.94	1474.
800	3.24	34.33	793	27.35	79.2	9.64	31.96	1476.
1000	2.89	34.42	990	27.45	70.2	11.13	45.59	1478.
1200	2.62	34.47	1188	27.52	64.6	12.48	60.74	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 29

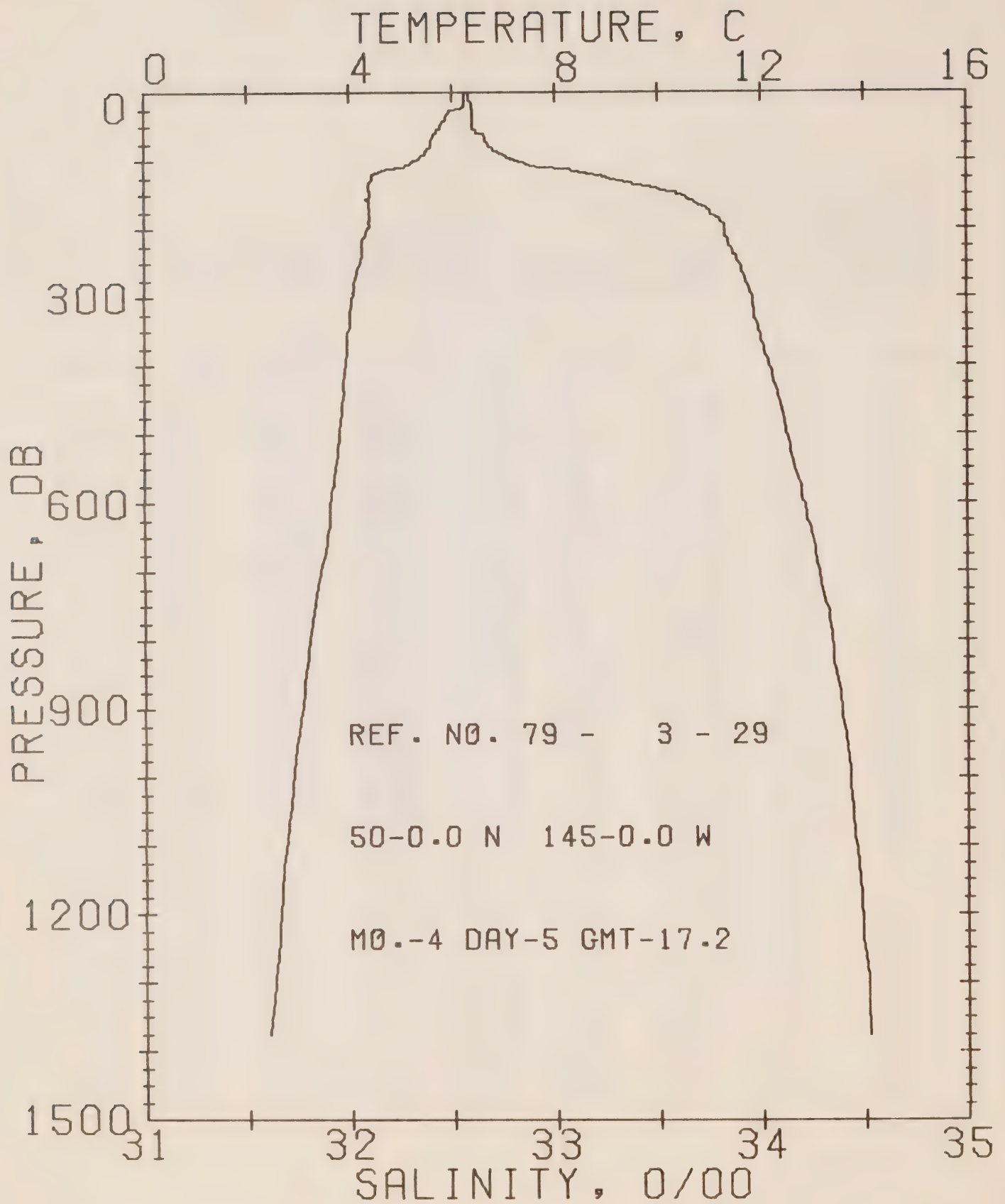
DATE 5/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 137 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.57	0	25.63	236.8	.00	.00	1473.
10	6.25	32.58	10	25.64	236.3	.24	.01	1473.
20	6.24	32.59	20	25.64	235.5	.47	.05	1473.
30	5.94	32.60	30	25.69	231.4	.71	.11	1472.
40	5.86	32.60	40	25.70	230.5	.94	.19	1472.
50	5.75	32.60	50	25.71	229.4	1.17	.30	1472.
60	5.66	32.65	60	25.76	224.7	1.39	.42	1472.
70	5.60	32.66	70	25.78	223.3	1.62	.57	1471.
80	5.58	32.68	79	25.80	221.8	1.84	.74	1472.
90	5.46	32.73	89	25.85	216.8	2.06	.93	1471.
100	5.25	32.81	99	25.94	208.5	2.27	1.14	1471.
110	5.00	32.94	109	26.07	196.2	2.48	1.36	1470.
120	4.45	33.15	119	26.29	174.7	2.66	1.57	1468.
130	4.39	33.33	129	26.44	160.7	2.83	1.78	1468.
140	4.38	33.47	139	26.55	150.1	2.98	2.00	1469.
150	4.39	33.59	149	26.65	141.3	3.13	2.21	1469.
160	4.38	33.68	159	26.72	134.6	3.26	2.43	1469.
170	4.39	33.73	169	26.76	130.8	3.40	2.65	1470.
180	4.40	33.76	179	26.78	129.0	3.53	2.88	1470.
190	4.38	33.81	189	26.82	125.1	3.65	3.12	1470.
200	4.35	33.83	199	26.84	123.3	3.78	3.37	1470.
210	4.30	33.83	208	26.85	123.0	3.90	3.63	1470.
220	4.23	33.84	218	26.86	121.6	4.02	3.89	1470.
230	4.25	33.86	228	26.88	120.4	4.14	4.17	1470.
240	4.23	33.88	238	26.89	119.0	4.26	4.46	1470.
250	4.20	33.90	248	26.91	117.3	4.38	4.75	1470.
260	4.14	33.91	258	26.93	115.7	4.50	5.06	1470.
270	4.11	33.92	268	26.94	114.8	4.61	5.37	1470.
280	4.09	33.93	278	26.95	113.9	4.73	5.69	1470.
290	4.08	33.95	288	26.97	112.4	4.84	6.02	1471.
300	4.03	33.96	298	26.98	111.2	4.95	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 29

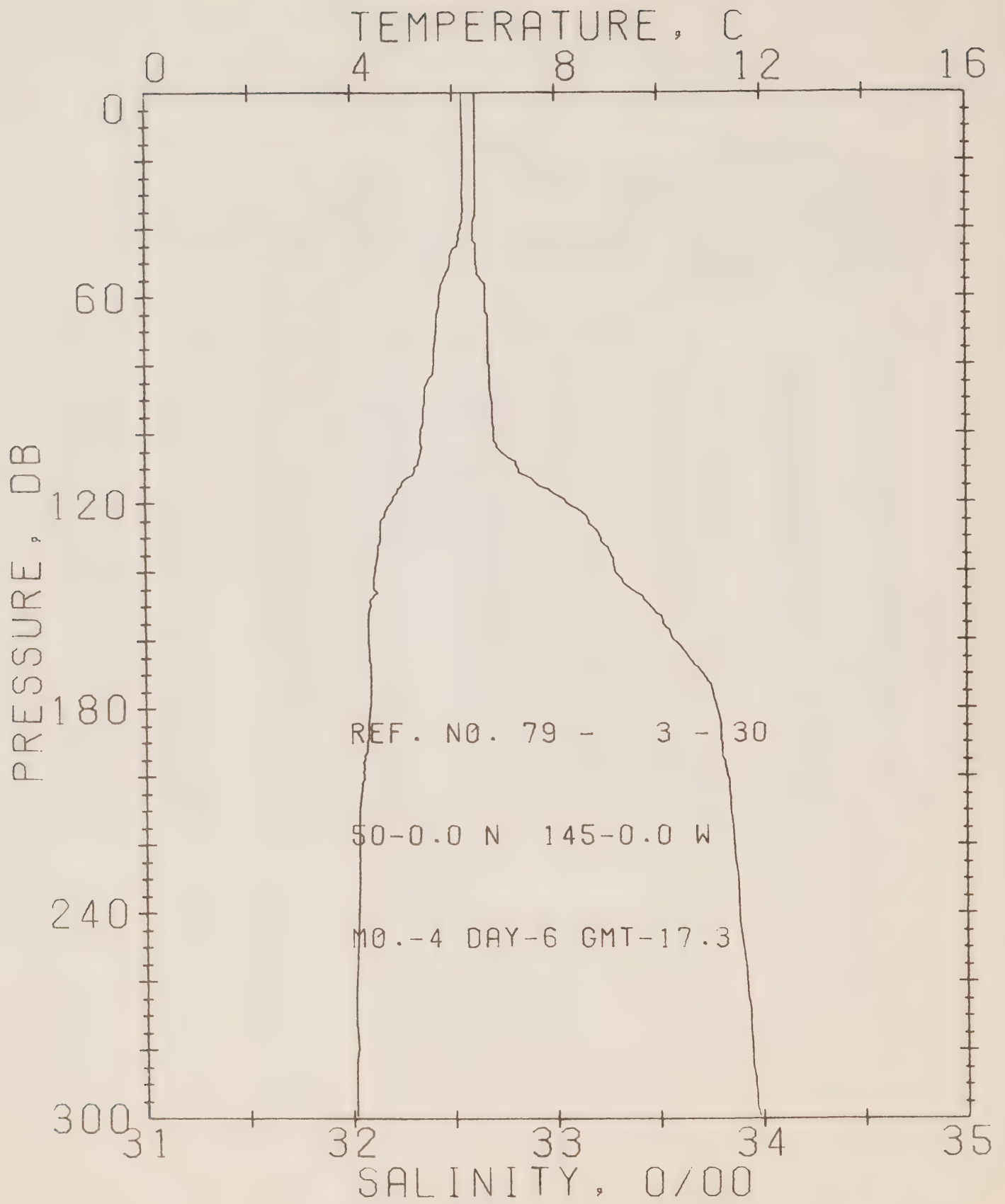
DATE 5/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 224 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.57	0	25.63	236.8	.00	.00	1473.
10	6.25	32.56	10	25.64	236.3	.24	.01	1473.
20	6.24	32.59	20	25.64	235.5	.47	.05	1473.
30	5.94	32.60	30	25.69	231.4	.71	.11	1472.
50	5.75	32.60	50	25.71	229.4	1.17	.30	1472.
75	5.58	32.67	75	25.79	222.5	1.73	.65	1472.
100	5.25	32.81	99	25.94	208.5	2.27	1.14	1471.
125	4.44	33.24	124	26.37	167.9	2.74	1.68	1468.
150	4.39	33.59	149	26.65	141.3	3.13	2.21	1469.
175	4.37	33.75	174	26.78	129.4	3.46	2.77	1470.
200	4.35	33.83	199	26.84	123.3	3.78	3.37	1470.
225	4.24	33.85	223	26.87	121.1	4.08	4.03	1470.
250	4.20	33.90	248	26.91	117.3	4.38	4.75	1470.
300	4.03	33.96	298	26.98	111.2	4.95	6.35	1470.
400	3.91	34.04	397	27.05	104.9	6.04	10.22	1472.
500	3.78	34.12	496	27.13	98.3	7.05	14.86	1473.
600	3.61	34.20	595	27.22	90.8	8.00	20.16	1474.
800	3.20	34.34	793	27.36	77.8	9.68	32.11	1476.
1000	2.87	34.43	990	27.46	69.0	11.15	45.52	1478.
1200	2.61	34.49	1188	27.53	63.2	12.47	60.30	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 30

DATE 6/ 4/79

POSITION 50- .0N, 145- .0W

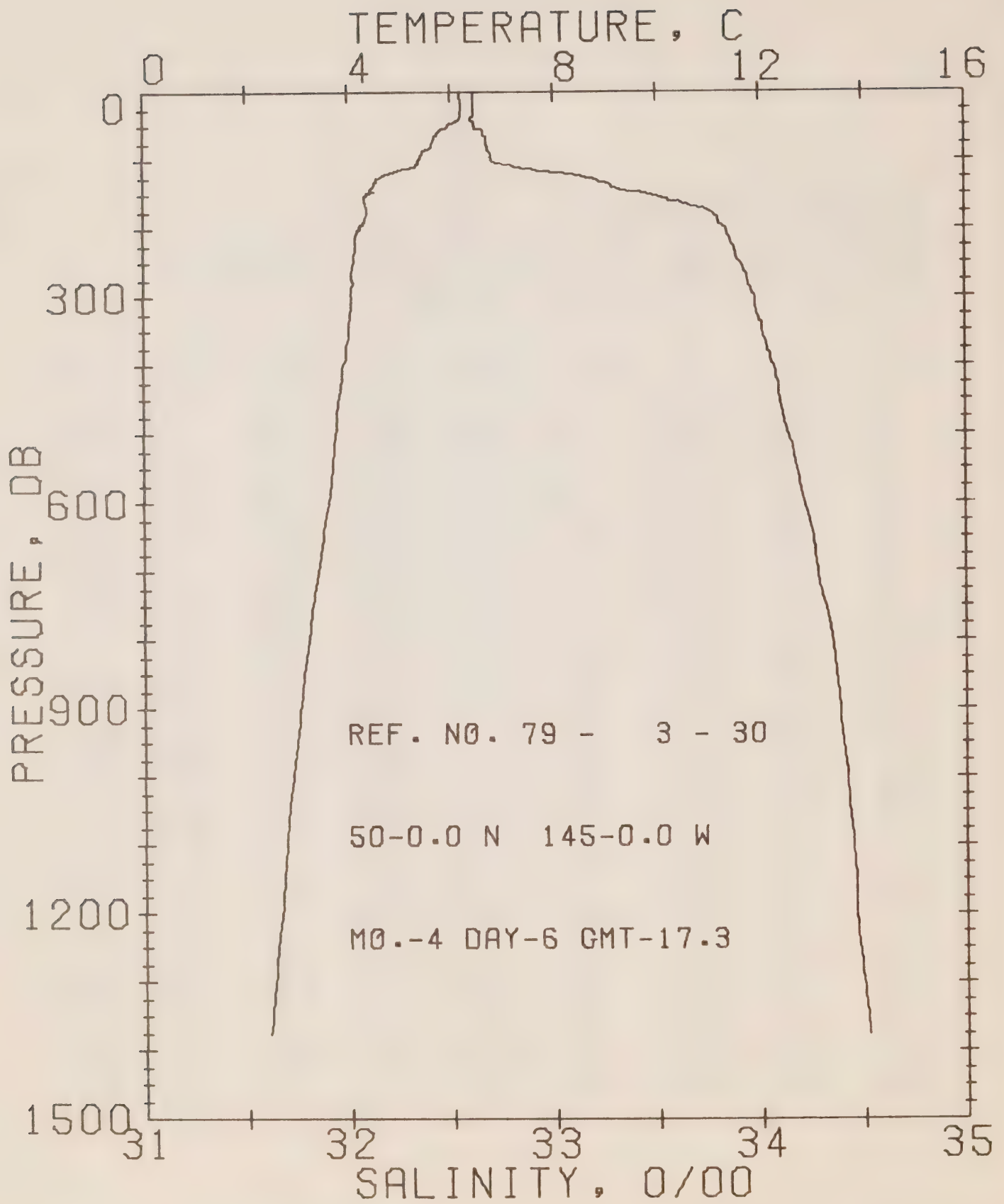
GMT 17.3

STATION P

RESULTS OF STP CAST 146 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.20	32.61	0	25.67	233.3	.00	.00	1473.
10	6.20	32.61	10	25.67	233.5	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.20	32.61	30	25.67	233.7	.70	.11	1473.
40	6.17	32.60	40	25.66	234.2	.93	.19	1473.
50	5.94	32.61	50	25.70	230.8	1.17	.30	1472.
60	5.74	32.66	60	25.76	224.9	1.39	.42	1472.
70	5.67	32.67	70	25.78	223.4	1.62	.57	1472.
80	5.62	32.68	79	25.79	222.2	1.84	.74	1472.
90	5.44	32.69	89	25.82	219.8	2.06	.94	1471.
100	5.36	32.70	99	25.84	218.0	2.28	1.15	1471.
110	5.23	32.82	109	25.95	207.7	2.50	1.38	1471.
120	4.78	33.05	119	26.18	185.6	2.69	1.61	1469.
130	4.56	33.22	129	26.34	170.7	2.87	1.83	1469.
140	4.45	33.29	139	26.40	164.4	3.04	2.06	1469.
150	4.36	33.46	149	26.55	150.8	3.19	2.29	1469.
160	4.33	33.57	159	26.64	142.3	3.34	2.52	1469.
170	4.37	33.71	169	26.75	131.9	3.48	2.75	1469.
180	4.36	33.78	179	26.81	126.6	3.61	2.98	1470.
190	4.30	33.81	189	26.83	124.3	3.73	3.22	1470.
200	4.23	33.84	199	26.86	121.7	3.85	3.47	1469.
210	4.14	33.85	209	26.88	119.8	3.97	3.72	1469.
220	4.13	33.86	218	26.89	118.7	4.09	3.98	1469.
230	4.13	33.88	228	26.91	117.5	4.21	4.25	1470.
240	4.11	33.89	238	26.91	116.8	4.33	4.53	1470.
250	4.09	33.91	248	26.93	115.4	4.45	4.82	1470.
260	4.07	33.92	258	26.95	113.9	4.56	5.12	1470.
270	4.06	33.94	268	26.96	112.7	4.67	5.42	1470.
280	4.10	33.95	278	26.96	112.5	4.79	5.74	1470.
290	4.06	33.96	288	26.98	111.4	4.90	6.07	1470.
300	4.06	33.98	298	26.99	110.0	5.01	6.40	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 30

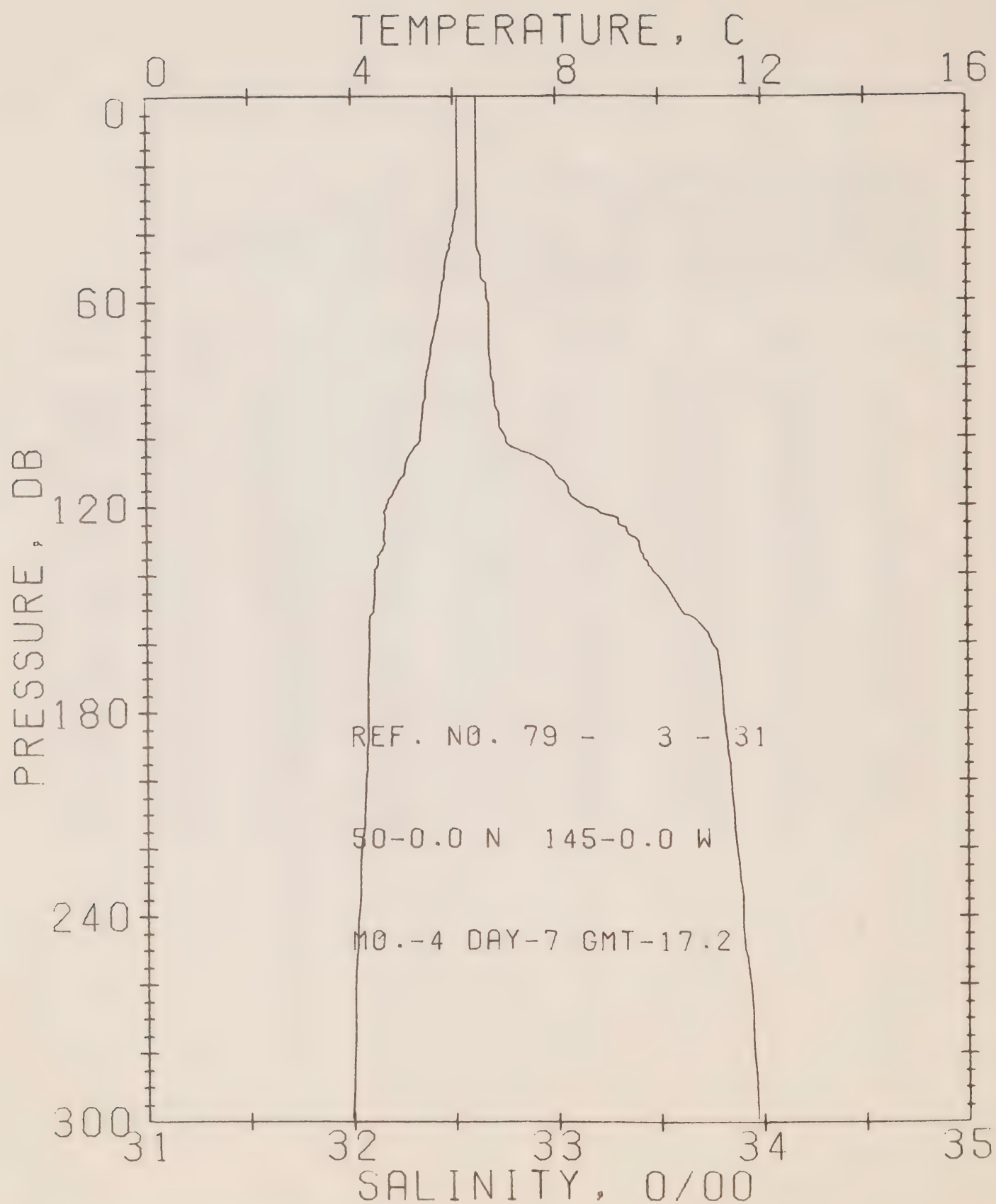
DATE 6/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 218 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

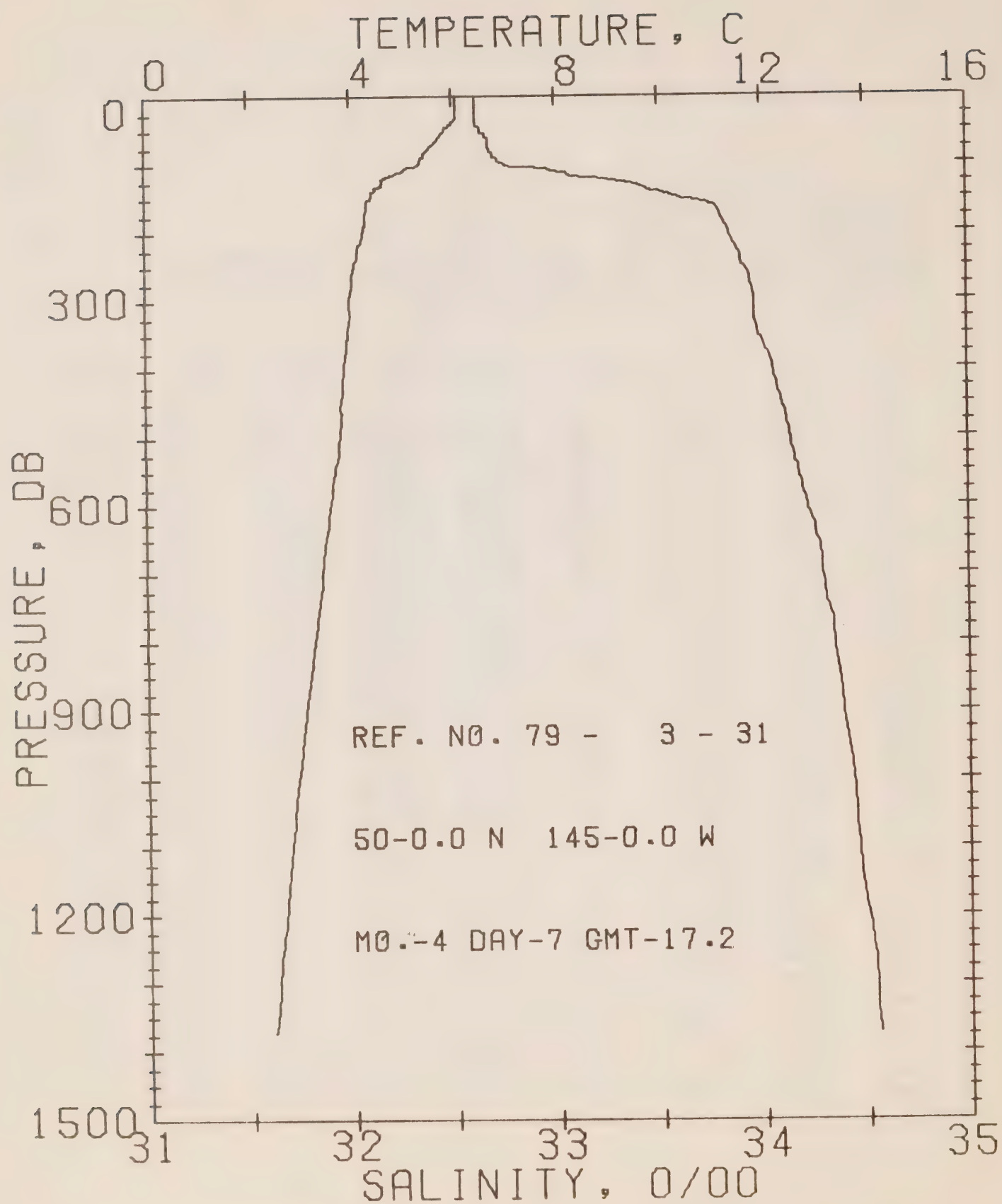
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.20	32.61	0	25.67	233.3	.00	.00	1473.
10	6.20	32.61	10	25.67	233.5	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.20	32.61	30	25.67	233.7	.70	.11	1473.
50	5.94	32.61	50	25.70	230.8	1.17	.30	1472.
75	5.64	32.67	75	25.78	223.2	1.73	.66	1472.
100	5.36	32.70	99	25.84	218.0	2.28	1.15	1471.
125	4.57	33.16	124	26.29	175.2	2.78	1.72	1469.
150	4.36	33.46	149	26.55	150.8	3.19	2.29	1469.
175	4.37	33.76	174	26.79	128.6	3.54	2.87	1470.
200	4.23	33.84	199	26.86	121.7	3.85	3.47	1469.
225	4.13	33.87	223	26.90	118.2	4.15	4.11	1470.
250	4.09	33.91	248	26.93	115.4	4.45	4.82	1470.
300	4.06	33.98	298	26.99	110.0	5.01	6.40	1471.
400	3.88	34.06	397	27.08	102.7	6.08	10.21	1472.
500	3.74	34.13	496	27.15	96.7	7.08	14.78	1473.
600	3.58	34.21	595	27.22	90.0	8.01	20.00	1474.
800	3.19	34.35	793	27.37	77.2	9.67	31.84	1476.
1000	2.87	34.42	990	27.46	69.6	11.14	45.27	1478.
1200	2.64	34.46	1188	27.51	65.2	12.48	60.27	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 31 DATE 7/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.61	0	25.68	231.9	.00	.00	1472.
10	6.08	32.61	10	25.68	232.0	.23	.01	1472.
20	6.08	32.61	20	25.68	232.2	.46	.05	1473.
30	6.08	32.61	30	25.68	232.3	.70	.11	1473.
40	6.00	32.61	40	25.69	231.4	.93	.19	1473.
50	5.84	32.63	50	25.73	228.2	1.16	.29	1472.
60	5.73	32.66	60	25.77	224.3	1.38	.42	1472.
70	5.61	32.67	70	25.78	222.8	1.61	.57	1472.
80	5.48	32.68	79	25.81	220.6	1.83	.74	1471.
90	5.42	32.70	89	25.83	218.6	2.05	.93	1471.
100	5.34	32.75	99	25.88	214.0	2.27	1.14	1471.
110	5.01	32.99	109	26.11	192.6	2.47	1.36	1470.
120	4.67	33.14	119	26.26	177.7	2.65	1.57	1469.
130	4.62	33.40	129	26.47	157.8	2.82	1.78	1469.
140	4.44	33.48	139	26.56	149.6	2.97	2.00	1469.
150	4.40	33.60	149	26.66	140.7	3.12	2.21	1469.
160	4.31	33.75	159	26.78	128.6	3.25	2.42	1469.
170	4.30	33.80	169	26.82	125.2	3.38	2.63	1469.
180	4.30	33.81	179	26.83	124.1	3.50	2.86	1469.
190	4.29	33.83	189	26.85	122.6	3.63	3.09	1470.
200	4.25	33.85	199	26.87	121.1	3.75	3.33	1470.
210	4.21	33.86	208	26.88	119.9	3.87	3.58	1470.
220	4.16	33.87	218	26.90	118.3	3.99	3.84	1470.
230	4.13	33.89	228	26.92	116.7	4.11	4.11	1470.
240	4.10	33.90	238	26.92	115.9	4.22	4.39	1470.
250	4.06	33.91	248	26.94	114.6	4.34	4.68	1470.
260	4.03	33.94	258	26.96	112.7	4.45	4.98	1470.
270	4.03	33.95	268	26.97	111.7	4.56	5.28	1470.
280	4.02	33.95	278	26.98	111.4	4.68	5.59	1470.
290	4.00	33.96	288	26.99	110.5	4.79	5.91	1470.
300	3.98	33.97	298	26.99	109.9	4.90	6.24	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 31

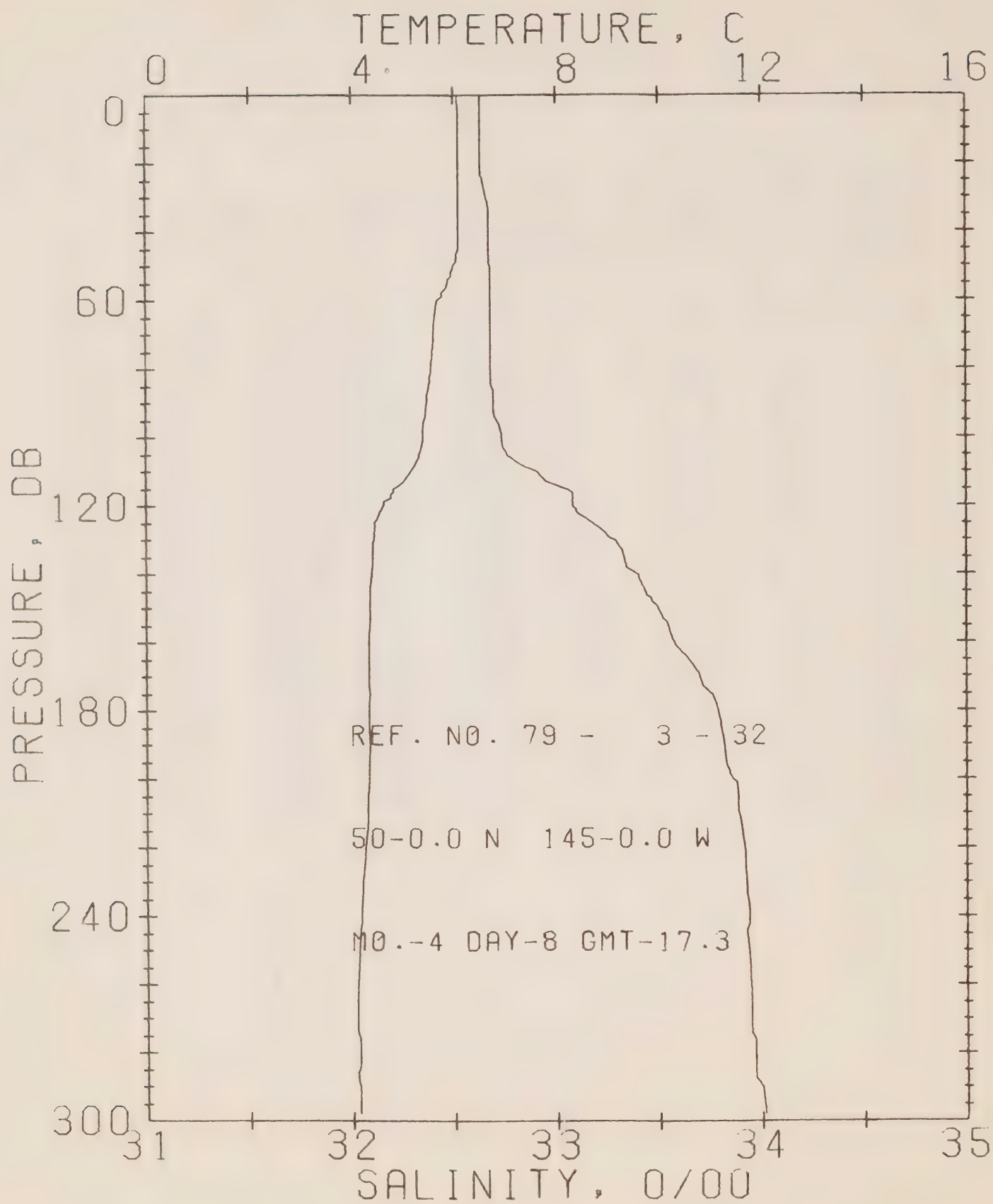
DATE 7/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.61	0	25.68	231.9	.00	.00	1472.
10	6.08	32.61	10	25.68	232.0	.23	.01	1472.
20	6.08	32.61	20	25.68	232.2	.46	.05	1473.
30	6.08	32.61	30	25.68	232.3	.70	.11	1473.
50	5.84	32.63	50	25.73	228.2	1.16	.29	1472.
75	5.55	32.67	75	25.79	222.1	1.72	.65	1471.
100	5.34	32.75	99	25.88	214.0	2.27	1.14	1471.
125	4.63	33.30	124	26.39	165.4	2.74	1.68	1469.
150	4.40	33.60	149	26.66	140.7	3.12	2.21	1469.
175	4.30	33.80	174	26.83	124.6	3.44	2.74	1469.
200	4.25	33.85	199	26.87	121.1	3.75	3.33	1470.
225	4.14	33.88	223	26.91	117.5	4.05	3.98	1470.
250	4.06	33.91	248	26.94	114.6	4.34	4.68	1470.
300	3.98	33.97	298	26.99	109.9	4.90	6.24	1470.
400	3.87	34.05	397	27.07	103.5	5.98	10.09	1472.
500	3.78	34.13	496	27.14	97.1	6.98	14.67	1473.
600	3.58	34.22	595	27.23	89.7	7.91	19.91	1474.
800	3.26	34.35	793	27.37	77.8	9.57	31.74	1476.
1000	2.91	34.44	990	27.47	68.9	11.04	45.16	1478.
1200	2.65	34.50	1188	27.54	62.5	12.36	59.94	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 32

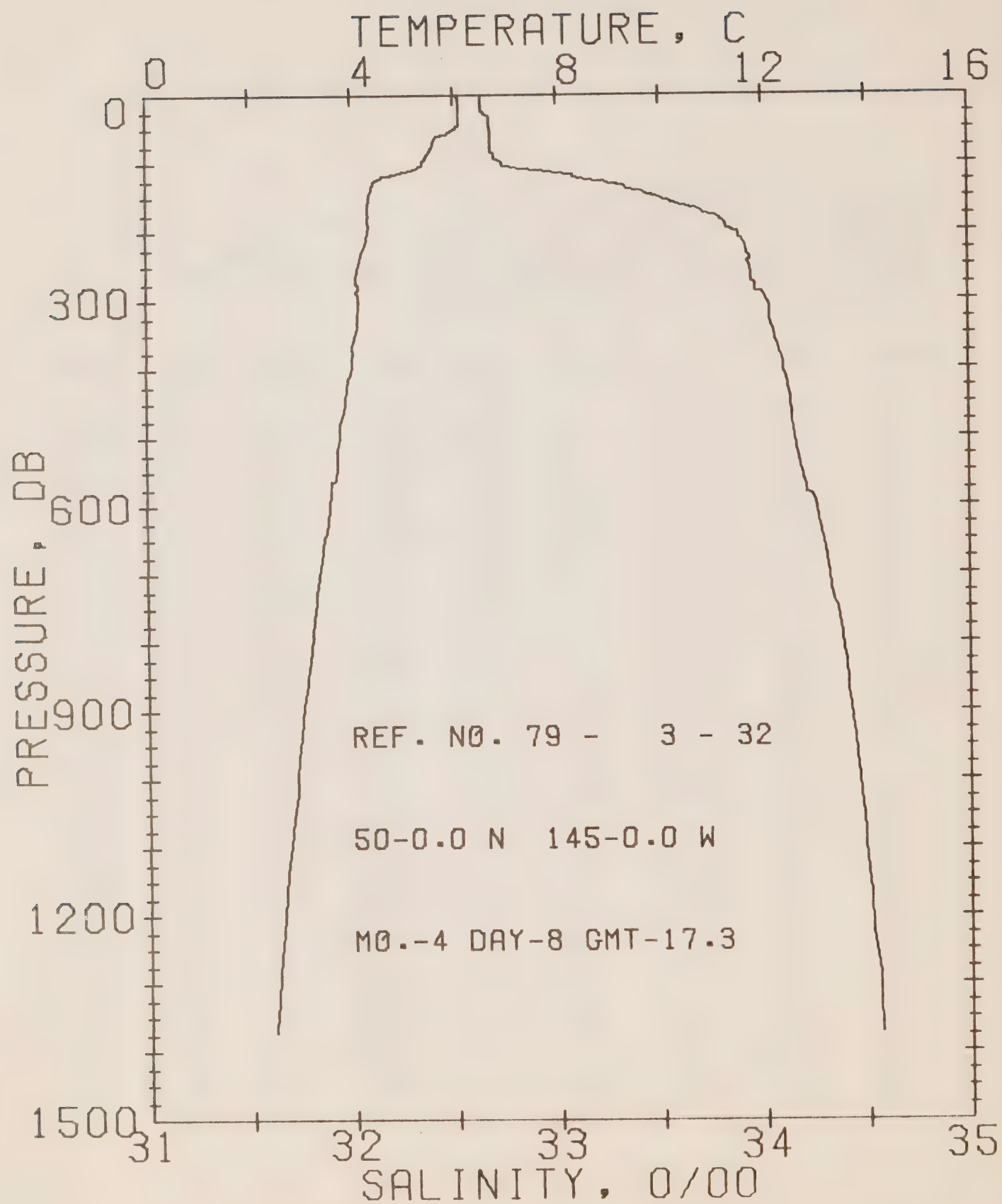
DATE 8/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 128 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.63	0	25.70	230.4	.00	.00	1472.
10	6.11	32.63	10	25.69	230.9	.23	.01	1473.
20	6.11	32.63	20	25.69	231.0	.46	.05	1473.
30	6.11	32.66	30	25.71	229.1	.69	.11	1473.
40	6.12	32.67	40	25.72	228.4	.92	.19	1473.
50	6.00	32.68	50	25.75	226.3	1.15	.29	1473.
60	5.69	32.68	60	25.78	222.8	1.37	.42	1472.
70	5.60	32.68	70	25.79	221.9	1.60	.57	1472.
80	5.54	32.68	79	25.80	221.3	1.82	.73	1471.
90	5.46	32.69	89	25.82	219.8	2.04	.93	1471.
100	5.38	32.73	99	25.86	216.0	2.26	1.14	1471.
110	5.15	32.91	109	26.03	200.0	2.47	1.36	1471.
120	4.60	33.08	119	26.22	181.5	2.66	1.58	1469.
130	4.42	33.29	129	26.41	164.0	2.83	1.80	1468.
140	4.36	33.40	139	26.50	155.2	2.99	2.03	1468.
150	4.34	33.50	149	26.58	147.8	3.14	2.25	1469.
160	4.32	33.57	159	26.64	142.0	3.29	2.48	1469.
170	4.32	33.69	169	26.74	133.0	3.42	2.71	1469.
180	4.32	33.79	179	26.81	126.1	3.55	2.94	1470.
190	4.34	33.82	189	26.84	124.0	3.68	3.18	1470.
200	4.31	33.86	199	26.87	120.7	3.80	3.42	1470.
210	4.29	33.89	208	26.90	118.2	3.92	3.67	1470.
220	4.25	33.92	218	26.92	116.0	4.04	3.92	1470.
230	4.19	33.93	228	26.94	114.5	4.15	4.19	1470.
240	4.15	33.94	238	26.95	113.5	4.27	4.46	1470.
250	4.12	33.94	248	26.95	113.4	4.38	4.75	1470.
260	4.09	33.95	258	26.96	112.5	4.49	5.04	1470.
270	4.08	33.95	268	26.97	112.2	4.60	5.34	1470.
280	4.13	33.97	278	26.98	111.3	4.72	5.66	1471.
290	4.12	34.00	288	27.00	109.1	4.83	5.98	1471.
300	4.13	34.01	298	27.01	108.1	4.94	6.30	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 32

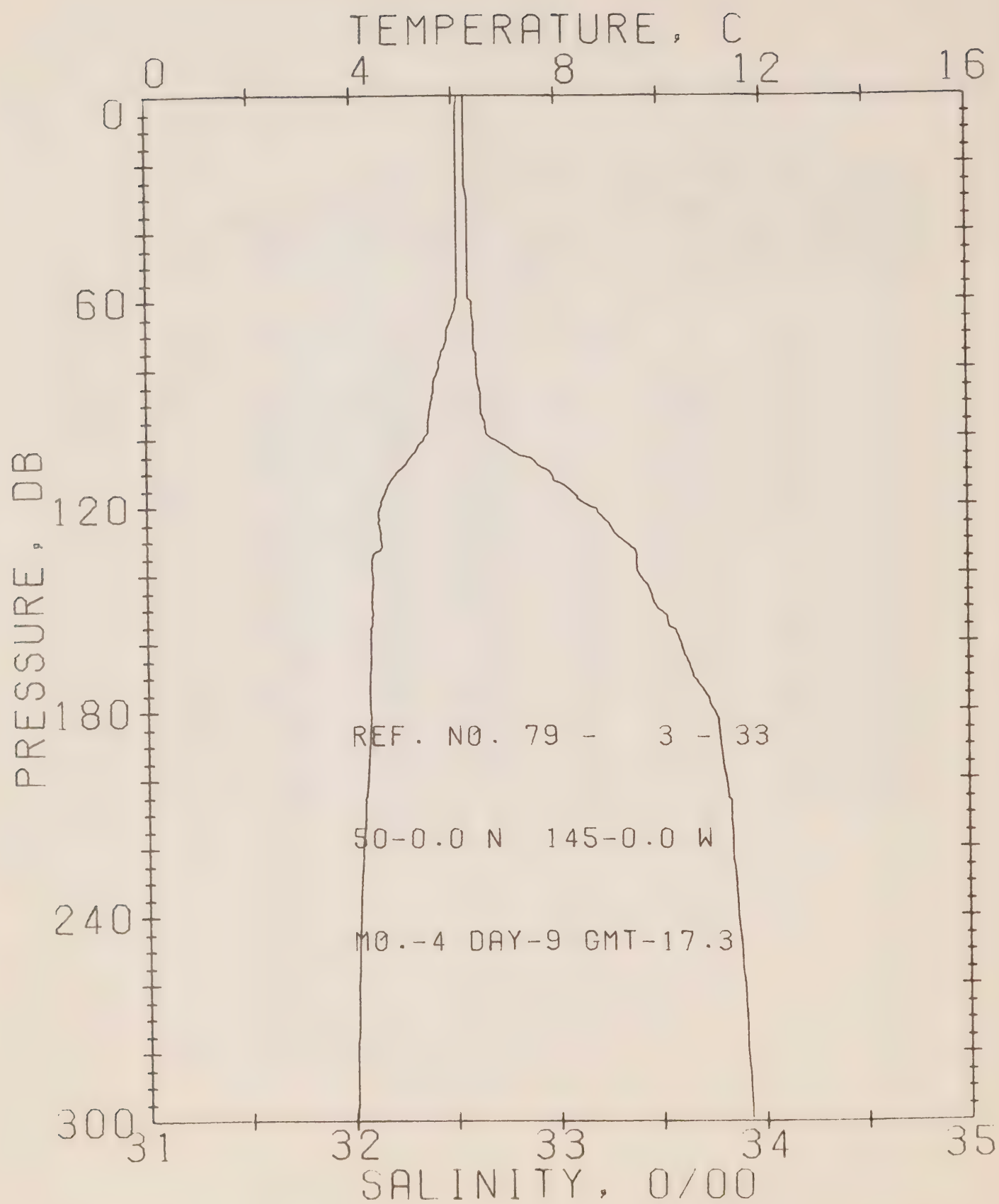
DATE 8/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 208 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.08	32.63	0	25.70	230.4	.00	.00	1472.
10	6.11	32.63	10	25.69	230.9	.23	.01	1473.
20	6.11	32.63	20	25.69	231.0	.46	.05	1473.
30	6.11	32.66	30	25.71	229.1	.69	.11	1473.
50	6.00	32.68	50	25.75	226.3	1.15	.29	1473.
75	5.57	32.68	75	25.80	221.6	1.71	.65	1471.
100	5.36	32.73	99	25.86	216.0	2.26	1.14	1471.
125	4.44	33.16	124	26.32	172.4	2.74	1.69	1468.
150	4.34	33.50	149	26.58	147.8	3.14	2.25	1469.
175	4.34	33.76	174	26.79	128.3	3.49	2.82	1469.
200	4.31	33.86	199	26.87	120.7	3.80	3.42	1470.
225	4.23	33.92	223	26.93	115.6	4.09	4.06	1470.
250	4.12	33.94	248	26.95	113.4	4.38	4.75	1470.
300	4.13	34.01	298	27.01	108.1	4.94	6.30	1471.
400	3.99	34.10	397	27.09	101.1	5.98	10.03	1472.
500	3.75	34.15	496	27.16	95.6	6.96	14.52	1473.
600	3.56	34.25	595	27.26	86.6	7.88	19.68	1474.
800	3.18	34.38	793	27.40	74.4	9.49	31.08	1476.
1000	2.88	34.46	990	27.49	66.7	10.89	43.95	1478.
1200	2.61	34.52	1188	27.56	60.9	12.16	58.18	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 33

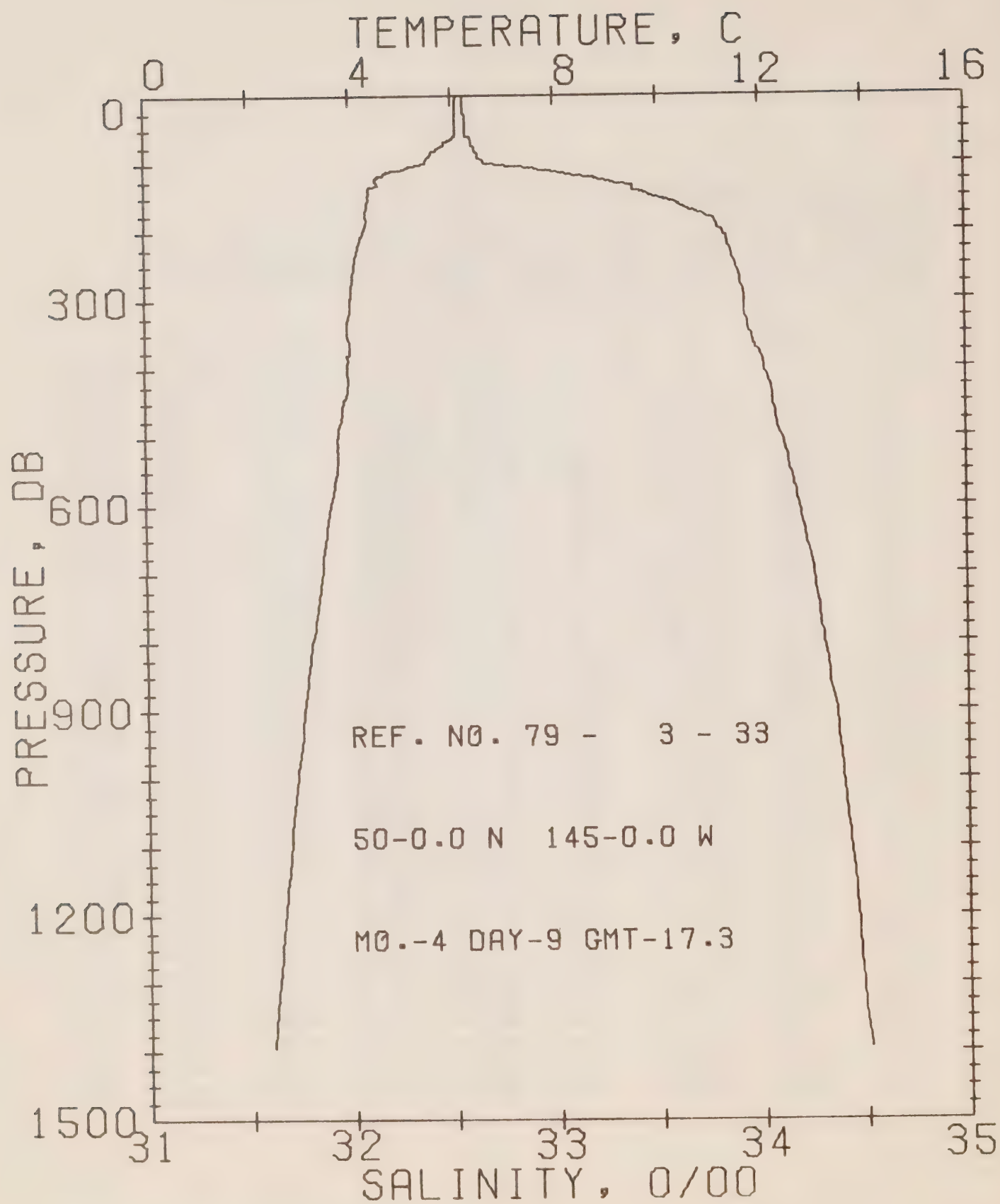
DATE 9/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.10	32.56	0	25.64	235.9	.00	.00	1472.
10	6.09	32.56	10	25.64	235.9	.24	.01	1472.
20	6.09	32.56	20	25.64	236.0	.47	.05	1473.
30	6.09	32.57	30	25.65	235.4	.71	.11	1473.
40	6.09	32.57	40	25.65	235.5	.94	.19	1473.
50	6.08	32.57	50	25.65	235.5	1.18	.30	1473.
60	6.06	32.59	60	25.67	233.9	1.41	.43	1473.
70	5.87	32.60	70	25.70	231.0	1.65	.59	1473.
80	5.70	32.61	79	25.73	228.4	1.88	.76	1472.
90	5.54	32.63	89	25.76	225.2	2.10	.96	1472.
100	5.42	32.68	99	25.81	220.2	2.33	1.17	1471.
110	4.88	32.97	109	26.10	192.6	2.53	1.40	1470.
120	4.56	33.15	119	26.28	175.8	2.72	1.61	1469.
130	4.57	33.32	129	26.42	163.3	2.89	1.83	1469.
140	4.38	33.40	139	26.50	155.4	3.04	2.04	1469.
150	4.37	33.49	149	26.57	148.6	3.20	2.27	1469.
160	4.35	33.60	159	26.66	140.3	3.34	2.49	1469.
170	4.32	33.66	169	26.71	135.6	3.48	2.73	1469.
180	4.33	33.76	179	26.79	128.3	3.61	2.96	1470.
190	4.30	33.79	189	26.82	125.5	3.74	3.20	1470.
200	4.27	33.82	199	26.84	123.5	3.86	3.45	1470.
210	4.21	33.84	209	26.87	121.3	3.98	3.70	1470.
220	4.16	33.85	218	26.88	120.1	4.10	3.97	1470.
230	4.12	33.86	228	26.89	118.9	4.22	4.24	1470.
240	4.10	33.87	238	26.90	118.0	4.34	4.53	1470.
250	4.08	33.89	248	26.92	116.5	4.46	4.82	1470.
260	4.06	33.90	258	26.93	115.8	4.57	5.12	1470.
270	4.05	33.91	268	26.94	115.0	4.69	5.43	1470.
280	4.03	33.91	278	26.94	114.6	4.80	5.75	1470.
290	4.02	33.92	288	26.95	113.9	4.92	6.09	1470.
300	4.00	33.93	298	26.96	113.1	5.03	6.43	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 33

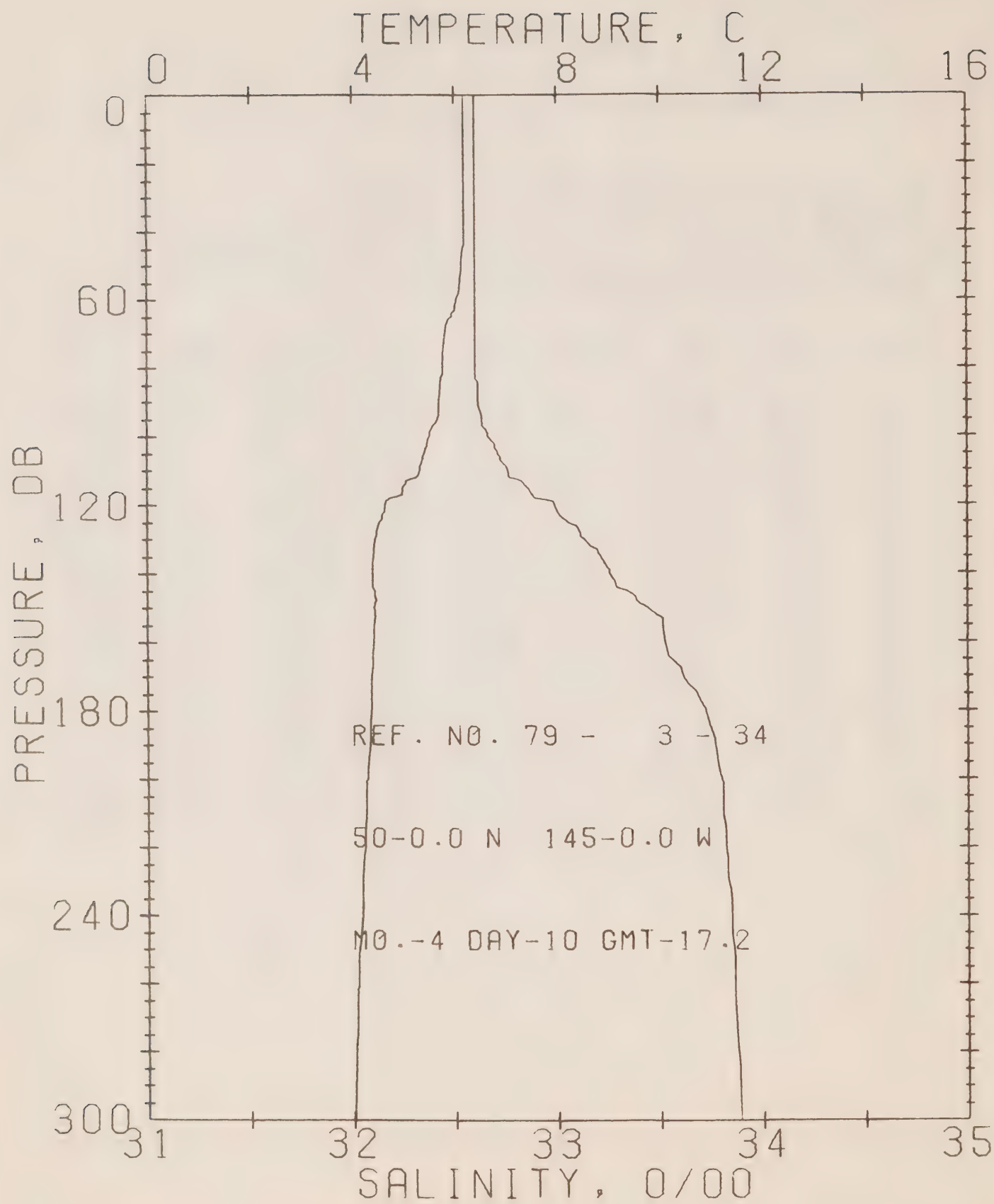
DATE 9/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 212 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.10	32.56	0	25.64	235.9	.00	.00	1472.
10	6.09	32.56	10	25.64	235.9	.24	.01	1472.
20	6.09	32.56	20	25.64	236.0	.47	.05	1473.
30	6.09	32.57	30	25.65	235.4	.71	.11	1473.
50	6.08	32.57	50	25.65	235.5	1.18	.30	1473.
75	5.75	32.61	75	25.72	228.9	1.76	.67	1472.
100	5.42	32.68	99	25.81	220.2	2.33	1.17	1471.
125	4.51	33.25	124	26.37	167.9	2.80	1.72	1469.
150	4.37	33.49	149	26.57	148.6	3.20	2.27	1469.
175	4.33	33.72	174	26.76	131.3	3.54	2.84	1469.
200	4.27	33.82	199	26.84	123.5	3.86	3.45	1470.
225	4.14	33.85	223	26.88	119.7	4.16	4.10	1470.
250	4.08	33.89	248	26.92	116.5	4.46	4.82	1470.
300	4.00	33.93	298	26.96	113.1	5.03	6.43	1470.
400	3.95	34.02	397	27.04	106.7	6.14	10.38	1472.
500	3.76	34.10	496	27.12	99.5	7.17	15.11	1473.
600	3.59	34.18	595	27.20	92.3	8.14	20.49	1474.
800	3.21	34.30	793	27.33	81.0	9.86	32.77	1476.
1000	2.90	34.39	990	27.43	72.1	11.38	46.68	1478.
1200	2.63	34.46	1188	27.51	65.4	12.75	62.05	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 34

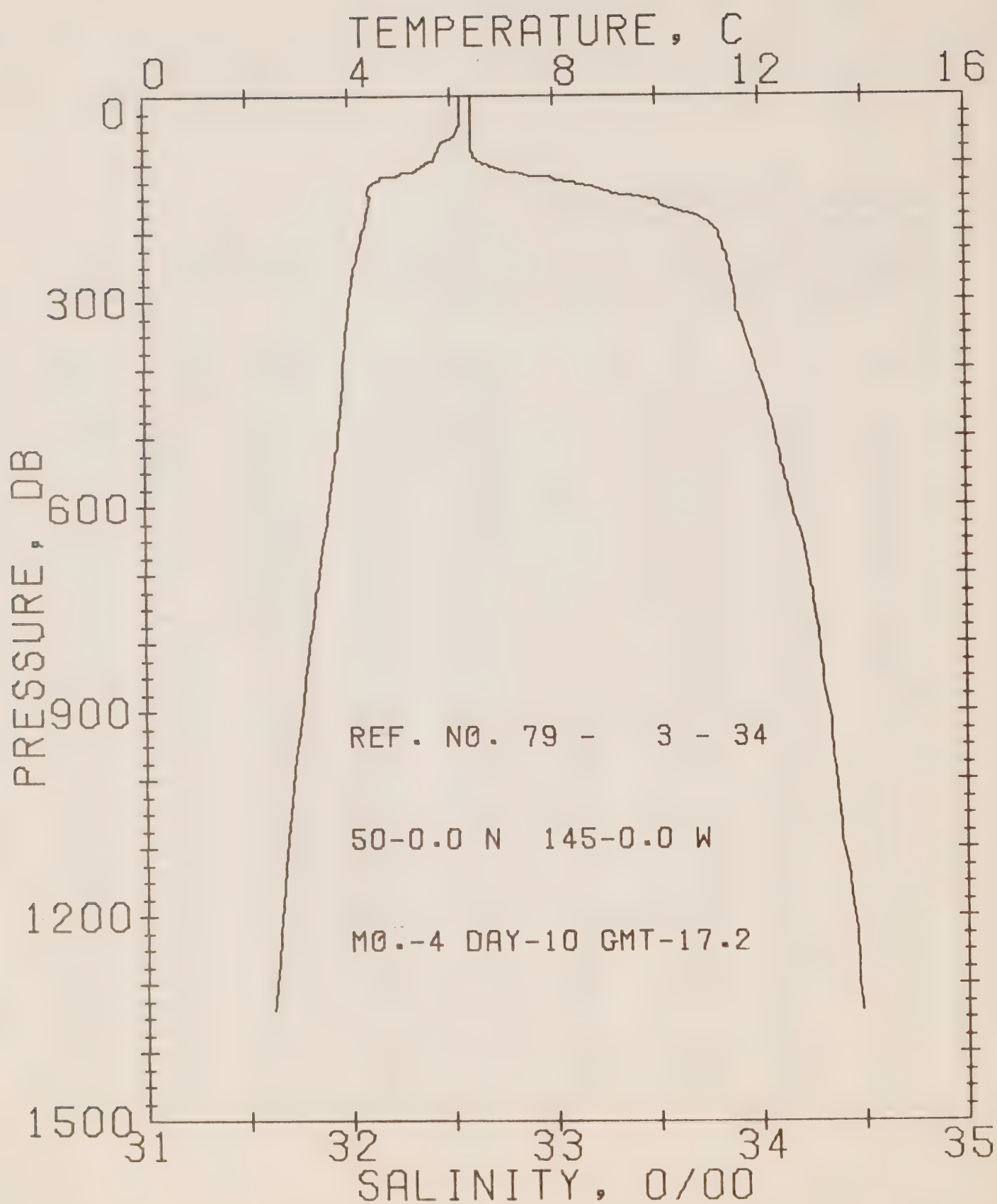
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 120 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.19	32.60	0	25.66	234.0	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
40	6.18	32.60	40	25.66	234.3	.94	.19	1473.
50	6.14	32.60	50	25.67	233.9	1.17	.30	1473.
60	6.02	32.60	60	25.68	232.6	1.40	.43	1473.
70	5.80	32.60	70	25.71	230.2	1.64	.58	1472.
80	5.76	32.60	79	25.71	229.8	1.87	.76	1472.
90	5.69	32.61	89	25.73	228.4	2.09	.96	1472.
100	5.48	32.66	99	25.79	222.3	2.32	1.18	1471.
110	5.31	32.76	109	25.89	213.0	2.54	1.41	1471.
120	4.61	32.99	119	26.15	188.3	2.74	1.65	1469.
130	4.43	33.13	129	26.28	176.1	2.92	1.88	1468.
140	4.36	33.25	139	26.38	166.4	3.09	2.11	1468.
150	4.41	33.44	149	26.53	152.8	3.25	2.35	1469.
160	4.40	33.52	159	26.60	146.4	3.40	2.58	1469.
170	4.35	33.61	169	26.67	139.6	3.55	2.82	1469.
180	4.34	33.72	179	26.76	131.0	3.68	3.06	1469.
190	4.31	33.77	189	26.80	127.2	3.81	3.31	1470.
200	4.27	33.80	199	26.83	124.8	3.94	3.56	1470.
210	4.23	33.81	209	26.84	123.7	4.06	3.82	1470.
220	4.21	33.82	218	26.85	122.9	4.18	4.09	1470.
230	4.15	33.83	228	26.87	121.3	4.30	4.37	1470.
240	4.14	33.85	238	26.88	120.1	4.42	4.66	1470.
250	4.10	33.86	248	26.89	119.2	4.54	4.95	1470.
260	4.07	33.86	258	26.90	118.8	4.66	5.26	1470.
270	4.04	33.87	268	26.90	118.0	4.78	5.58	1470.
280	4.03	33.88	278	26.91	117.2	4.90	5.91	1470.
290	4.01	33.88	288	26.92	116.6	5.02	6.25	1470.
300	4.00	33.89	298	26.93	116.1	5.13	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 34

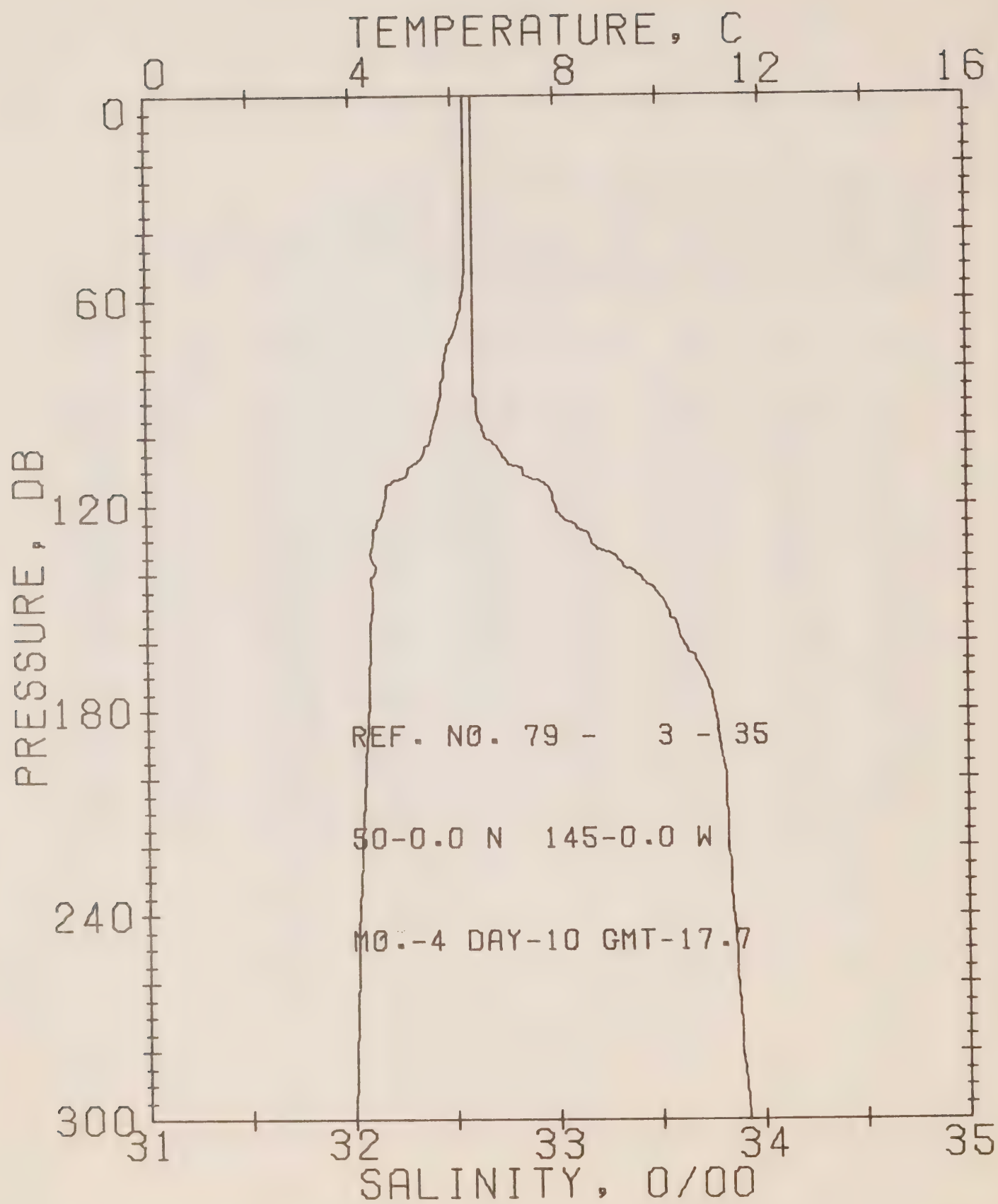
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 192 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.19	32.60	0	25.66	234.0	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
50	6.14	32.60	50	25.67	233.9	1.17	.30	1473.
75	5.78	32.60	75	25.71	230.0	1.75	.67	1472.
100	5.48	32.66	99	25.79	222.3	2.32	1.18	1471.
125	4.50	33.05	124	26.21	182.8	2.83	1.76	1468.
150	4.41	33.44	149	26.53	152.8	3.25	2.35	1469.
175	4.35	33.68	174	26.72	134.6	3.61	2.94	1469.
200	4.27	33.80	199	26.83	124.8	3.94	3.56	1470.
225	4.18	33.83	223	26.86	121.8	4.24	4.23	1470.
250	4.10	33.86	248	26.89	119.2	4.54	4.95	1470.
300	4.00	33.89	298	26.93	116.1	5.13	6.60	1470.
400	3.87	33.99	397	27.02	108.4	6.26	10.62	1471.
500	3.77	34.07	496	27.10	101.6	7.31	15.42	1473.
600	3.57	34.15	595	27.18	94.6	8.29	20.92	1474.
800	3.19	34.29	793	27.32	81.7	10.04	33.36	1476.
1000	2.87	34.37	990	27.41	73.7	11.59	47.60	1478.
1200	2.61	34.45	1188	27.50	65.9	12.99	63.26	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 35

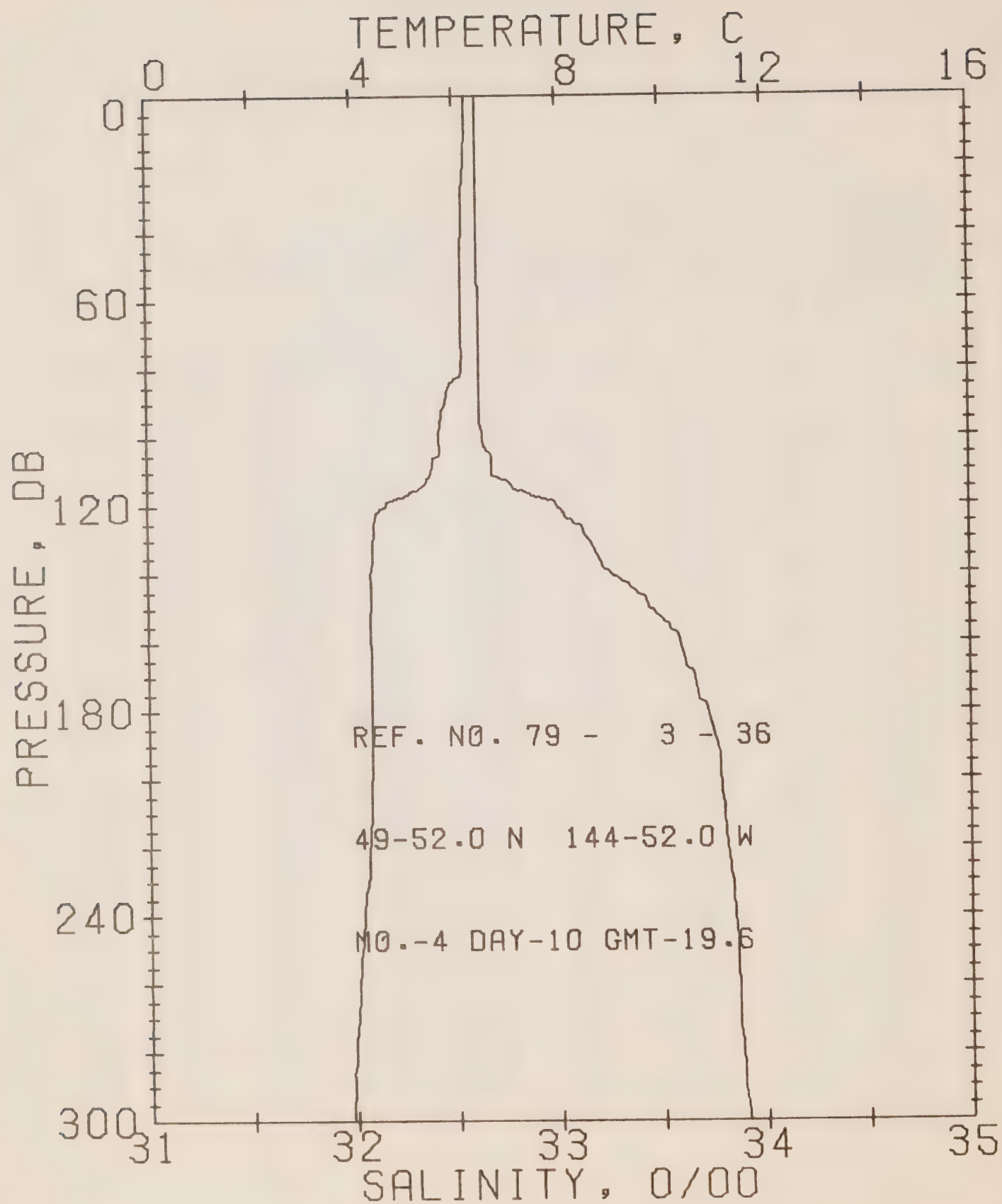
DATE 10/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.7 STATION P

RESULTS OF STP CAST 119 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

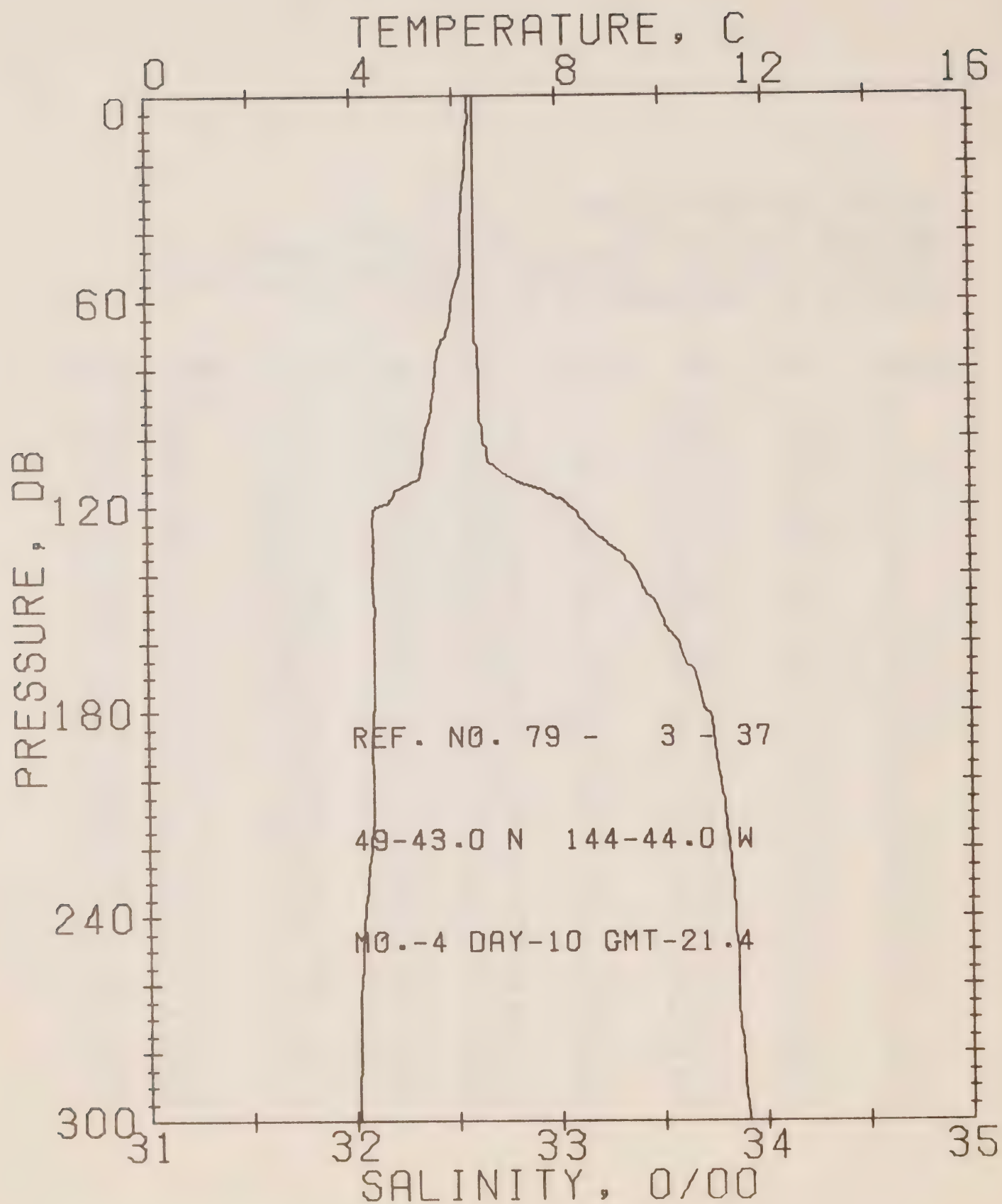
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.24	32.60	0	25.65	234.6	.00	.00	1473.
10	6.24	32.60	10	25.65	234.7	.23	.01	1473.
20	6.23	32.60	20	25.65	234.7	.47	.05	1473.
30	6.23	32.60	30	25.65	234.8	.70	.11	1473.
40	6.23	32.60	40	25.65	234.9	.94	.19	1473.
50	6.23	32.60	50	25.65	235.0	1.17	.30	1474.
60	6.16	32.60	60	25.66	234.3	1.41	.43	1474.
70	5.99	32.60	70	25.68	232.4	1.64	.59	1473.
80	5.80	32.60	79	25.71	230.3	1.87	.76	1472.
90	5.71	32.61	89	25.73	228.6	2.10	.96	1472.
100	5.54	32.65	99	25.78	223.8	2.33	1.18	1472.
110	5.09	32.84	109	25.98	204.6	2.55	1.41	1470.
120	4.63	32.99	119	26.15	188.6	2.74	1.64	1469.
130	4.41	33.16	129	26.31	173.4	2.92	1.87	1468.
140	4.44	33.39	139	26.48	156.8	3.09	2.10	1469.
150	4.39	33.53	149	26.60	145.8	3.24	2.32	1469.
160	4.35	33.61	159	26.67	139.5	3.38	2.54	1469.
170	4.33	33.72	169	26.76	131.2	3.51	2.77	1469.
180	4.31	33.76	179	26.80	127.6	3.64	3.00	1469.
190	4.26	33.79	189	26.82	125.2	3.77	3.24	1469.
200	4.23	33.82	199	26.85	122.9	3.89	3.48	1469.
210	4.20	33.83	209	26.86	122.2	4.01	3.74	1470.
220	4.16	33.83	218	26.86	121.6	4.14	4.01	1470.
230	4.14	33.84	228	26.87	120.7	4.26	4.29	1470.
240	4.10	33.85	238	26.89	119.5	4.38	4.57	1470.
250	4.08	33.87	248	26.90	118.3	4.50	4.87	1470.
260	4.06	33.87	258	26.91	117.7	4.61	5.18	1470.
270	4.04	33.88	268	26.92	116.7	4.73	5.49	1470.
280	4.02	33.89	278	26.92	116.2	4.85	5.82	1470.
290	4.01	33.91	288	26.94	114.9	4.96	6.15	1470.
300	4.00	33.92	298	26.95	113.9	5.08	6.50	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 36 DATE 10/ 4/79
 POSITION 49-52.0N, 144-52.0W GMT 19.6 STATION E3
 RESULTS OF STP CAST 112 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.23	32.61	0	25.66	233.7	.00	.00	1473.
10	6.23	32.61	10	25.66	233.8	.23	.01	1473.
20	6.21	32.61	20	25.66	233.7	.47	.05	1473.
30	6.16	32.61	30	25.67	233.2	.70	.11	1473.
40	6.15	32.61	40	25.67	233.2	.93	.19	1473.
50	6.14	32.61	50	25.67	233.2	1.17	.30	1473.
60	6.14	32.62	60	25.68	232.6	1.40	.43	1473.
70	6.14	32.62	70	25.68	232.7	1.63	.58	1474.
80	6.13	32.62	79	25.68	232.7	1.87	.76	1474.
90	5.81	32.62	89	25.72	229.0	2.10	.96	1473.
100	5.68	32.63	99	25.74	226.9	2.32	1.18	1472.
110	5.53	32.68	109	25.80	221.5	2.55	1.42	1472.
120	4.63	32.99	119	26.15	188.6	2.76	1.66	1469.
130	4.38	33.15	129	26.30	174.3	2.94	1.89	1468.
140	4.33	33.25	139	26.39	166.1	3.11	2.13	1468.
150	4.34	33.44	149	26.53	152.1	3.26	2.36	1469.
160	4.33	33.59	159	26.65	141.0	3.41	2.59	1469.
170	4.34	33.65	169	26.70	136.2	3.55	2.82	1469.
180	4.34	33.72	179	26.76	131.4	3.68	3.06	1469.
190	4.35	33.76	189	26.79	128.2	3.81	3.31	1470.
200	4.34	33.78	199	26.81	126.7	3.94	3.56	1470.
210	4.33	33.80	209	26.82	125.5	4.07	3.82	1470.
220	4.28	33.82	218	26.84	124.0	4.19	4.10	1470.
230	4.25	33.84	228	26.86	122.1	4.31	4.38	1470.
240	4.15	33.85	238	26.88	120.2	4.43	4.67	1470.
250	4.11	33.86	248	26.89	119.1	4.55	4.97	1470.
260	4.05	33.87	258	26.91	117.8	4.67	5.28	1470.
270	4.03	33.87	268	26.91	117.7	4.79	5.59	1470.
280	3.98	33.88	278	26.92	116.5	4.91	5.92	1470.
290	3.95	33.89	288	26.93	115.5	5.02	6.26	1470.
300	3.93	33.91	298	26.95	113.9	5.14	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 37

DATE 10/ 4/79

POSITION 49-43.0N, 144-44.0W

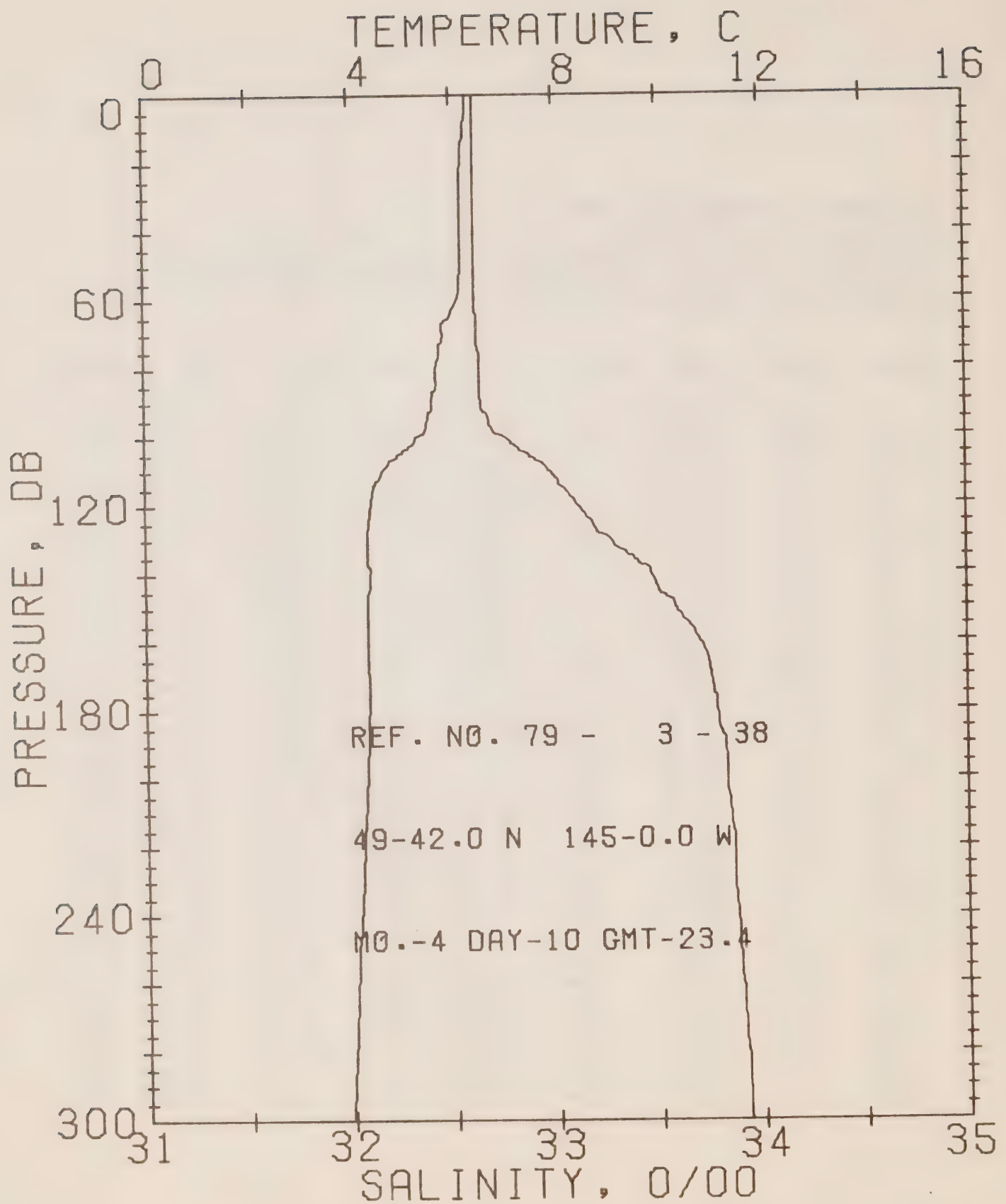
GMT 21.4

STATION E4

RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.27	32.60	10	25.65	235.0	.24	.01	1473.
20	6.23	32.60	20	25.65	234.7	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
40	6.14	32.60	40	25.67	233.8	.94	.19	1473.
50	6.13	32.60	50	25.67	233.8	1.17	.30	1473.
60	5.95	32.60	60	25.69	231.8	1.40	.43	1473.
70	5.83	32.60	70	25.70	230.5	1.64	.58	1472.
80	5.62	32.62	79	25.74	227.0	1.86	.76	1472.
90	5.55	32.62	89	25.75	226.0	2.09	.95	1472.
100	5.40	32.63	99	25.78	223.7	2.32	1.17	1471.
110	5.32	32.72	109	25.86	215.8	2.54	1.41	1471.
120	4.46	33.05	119	26.21	182.3	2.74	1.64	1468.
130	4.39	33.22	129	26.36	168.9	2.91	1.86	1468.
140	4.37	33.38	139	26.48	156.8	3.07	2.09	1469.
150	4.42	33.48	149	26.56	149.9	3.23	2.31	1469.
160	4.40	33.58	159	26.64	142.3	3.37	2.55	1469.
170	4.39	33.66	169	26.70	136.3	3.51	2.78	1469.
180	4.37	33.71	179	26.75	132.4	3.65	3.02	1470.
190	4.35	33.75	189	26.78	129.3	3.78	3.27	1470.
200	4.37	33.78	199	26.80	127.4	3.91	3.52	1470.
210	4.37	33.80	209	26.82	125.7	4.03	3.78	1470.
220	4.31	33.82	218	26.84	123.9	4.16	4.06	1470.
230	4.24	33.84	228	26.86	121.8	4.28	4.34	1470.
240	4.18	33.85	238	26.88	120.5	4.40	4.63	1470.
250	4.13	33.86	248	26.89	119.3	4.52	4.93	1470.
260	4.09	33.86	258	26.89	119.0	4.64	5.24	1470.
270	4.09	33.87	268	26.90	118.3	4.76	5.56	1470.
280	4.08	33.88	278	26.91	117.2	4.88	5.89	1470.
290	4.06	33.89	288	26.92	116.5	4.99	6.23	1470.
300	4.05	33.91	298	26.94	115.0	5.11	6.58	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 38

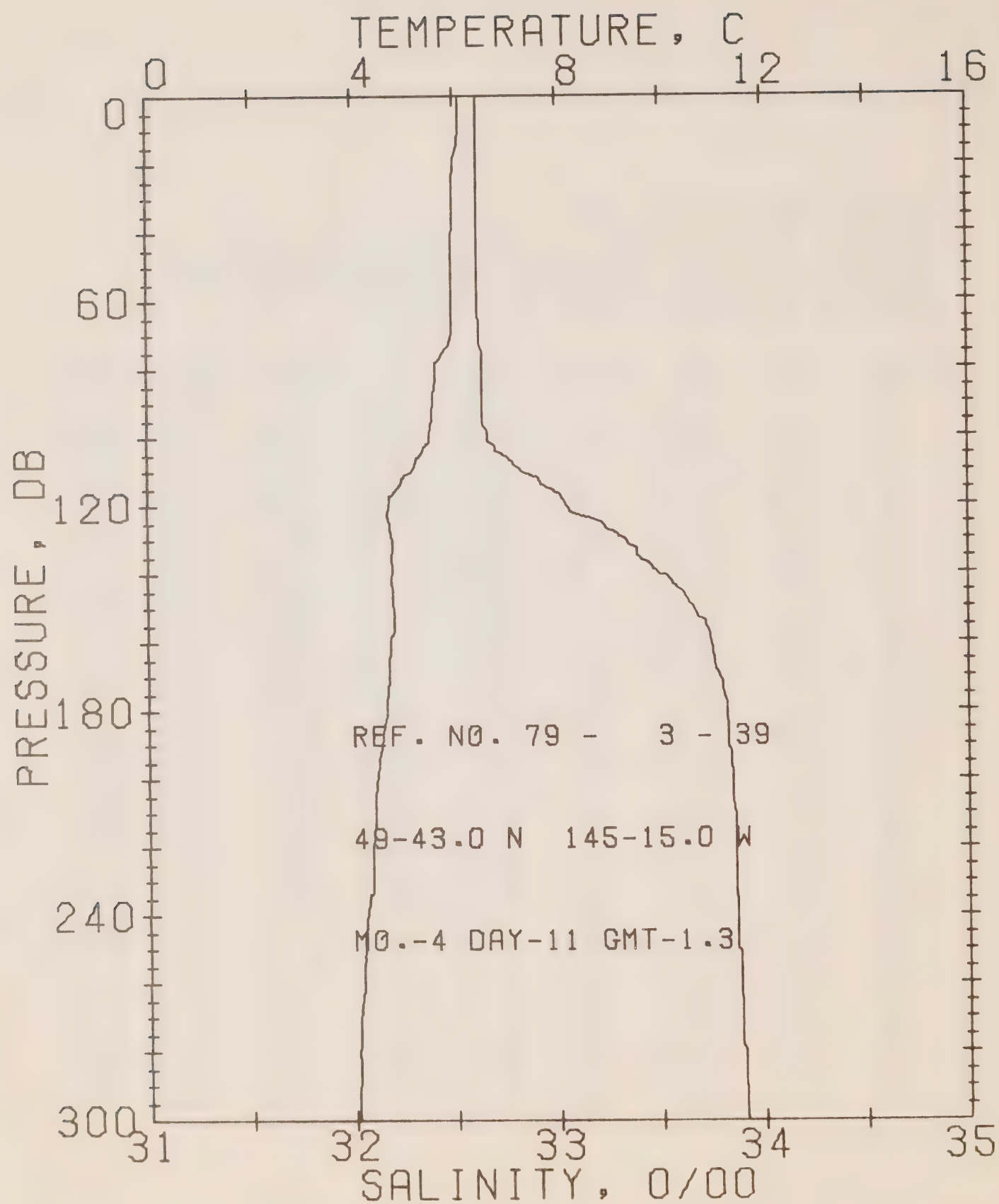
DATE 10/ 4/79

POSITION 49-42.0N, 145- .0W GMT 23.4 STATION C1

RESULTS OF STP CAST 124 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.31	32.61	0	25.65	234.7	.00	.00	1473.
10	6.28	32.61	10	25.66	234.4	.23	.01	1473.
20	6.21	32.61	20	25.67	233.6	.47	.05	1473.
30	6.19	32.61	30	25.67	233.6	.70	.11	1473.
40	6.19	32.61	40	25.67	233.6	.94	.19	1473.
50	6.18	32.61	50	25.67	233.7	1.17	.30	1473.
60	6.11	32.61	60	25.68	233.0	1.40	.43	1473.
70	5.84	32.62	70	25.72	229.1	1.63	.58	1472.
80	5.69	32.63	79	25.74	226.8	1.86	.76	1472.
90	5.59	32.64	89	25.76	225.0	2.09	.95	1472.
100	5.29	32.75	99	25.89	213.5	2.31	1.17	1471.
110	4.62	32.97	109	26.13	189.9	2.51	1.38	1469.
120	4.38	33.10	119	26.26	177.5	2.69	1.60	1468.
130	4.31	33.26	129	26.40	164.8	2.87	1.82	1468.
140	4.38	33.46	139	26.55	150.9	3.02	2.03	1469.
150	4.31	33.58	149	26.65	141.3	3.17	2.25	1469.
160	4.33	33.70	159	26.74	132.6	3.31	2.46	1469.
170	4.34	33.75	169	26.78	128.7	3.44	2.68	1469.
180	4.34	33.78	179	26.81	126.6	3.56	2.91	1470.
190	4.31	33.82	189	26.84	123.5	3.69	3.15	1470.
200	4.29	33.83	199	26.85	122.8	3.81	3.39	1470.
210	4.24	33.85	209	26.87	121.2	3.93	3.65	1470.
220	4.21	33.86	218	26.88	119.8	4.05	3.91	1470.
230	4.18	33.86	228	26.88	119.7	4.17	4.18	1470.
240	4.14	33.88	238	26.90	118.2	4.29	4.47	1470.
250	4.08	33.88	248	26.91	117.1	4.41	4.76	1470.
260	4.06	33.90	258	26.93	115.9	4.53	5.07	1470.
270	4.03	33.91	268	26.94	115.0	4.64	5.38	1470.
280	4.01	33.92	278	26.95	114.0	4.76	5.70	1470.
290	3.98	33.92	288	26.96	113.2	4.87	6.03	1470.
300	3.95	33.93	298	26.96	112.6	4.98	6.37	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 39

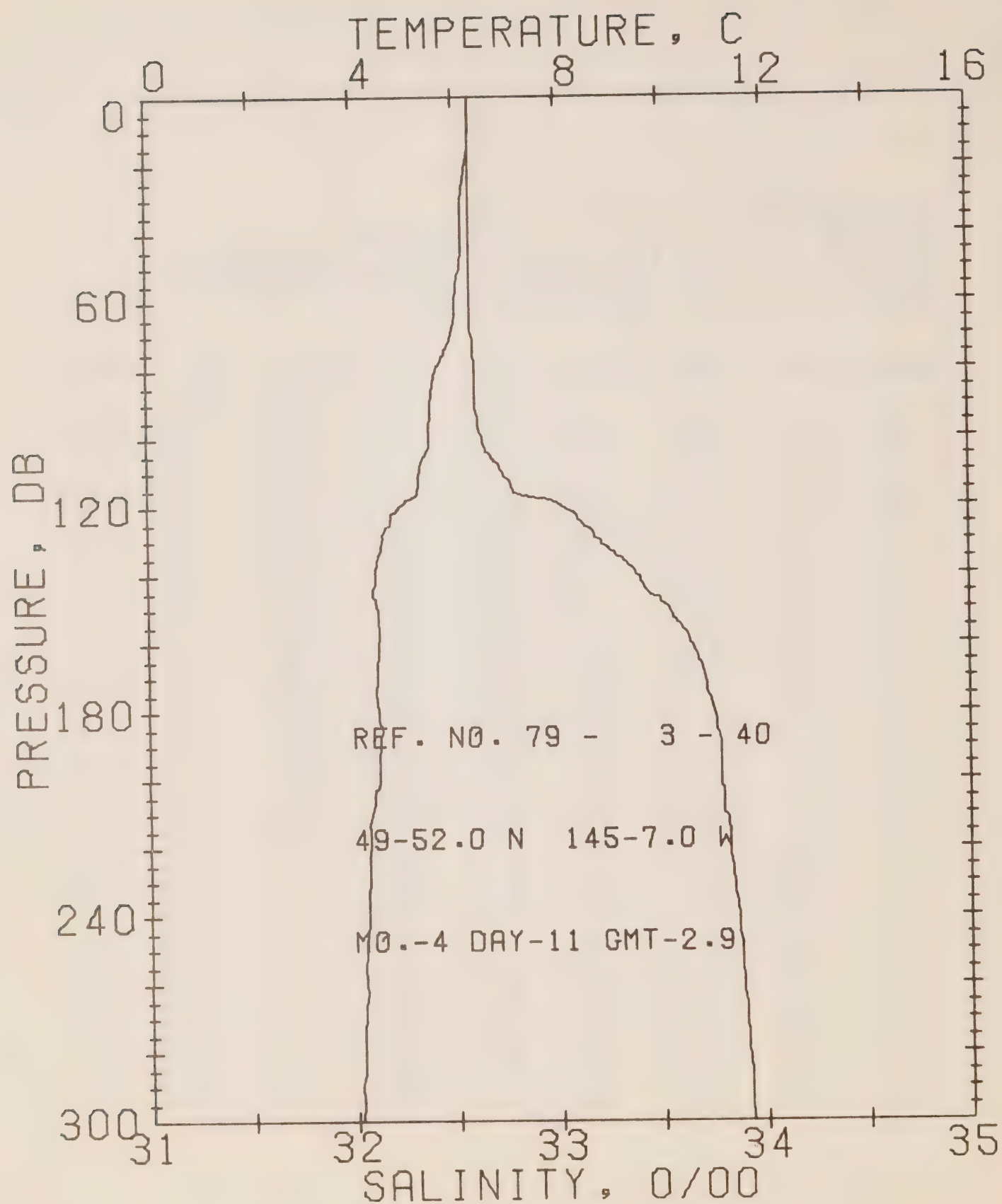
DATE 11/ 4/79

POSITION 49-43.0N, 145-15.0W GMT 1.3 STATION W4

RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.11	32.61	0	25.68	232.3	.00	.00	1472.
10	6.12	32.61	10	25.68	232.5	.23	.01	1473.
20	6.00	32.61	20	25.69	231.2	.46	.05	1472.
30	5.97	32.61	30	25.69	231.0	.70	.11	1472.
40	5.96	32.61	40	25.69	231.0	.93	.19	1472.
50	5.96	32.61	50	25.70	231.1	1.16	.29	1473.
60	5.96	32.61	60	25.70	231.2	1.39	.42	1473.
70	5.93	32.62	70	25.71	230.2	1.62	.58	1473.
80	5.63	32.63	79	25.75	226.1	1.85	.75	1472.
90	5.56	32.63	89	25.76	225.4	2.07	.95	1472.
100	5.49	32.66	99	25.79	222.5	2.30	1.16	1472.
110	5.15	32.82	109	25.96	206.8	2.51	1.39	1471.
120	4.69	33.04	119	26.18	185.4	2.71	1.62	1469.
130	4.78	33.33	129	26.40	164.8	2.88	1.84	1470.
140	4.77	33.49	139	26.53	152.8	3.04	2.06	1470.
150	4.79	33.66	149	26.66	140.4	3.19	2.28	1471.
160	4.72	33.74	159	26.73	133.5	3.32	2.49	1471.
170	4.69	33.79	169	26.77	129.7	3.45	2.72	1471.
180	4.63	33.82	179	26.80	126.9	3.58	2.94	1471.
190	4.54	33.83	189	26.82	125.3	3.71	3.18	1471.
200	4.44	33.85	199	26.85	122.9	3.83	3.43	1470.
210	4.39	33.86	209	26.86	121.8	3.95	3.68	1470.
220	4.35	33.86	218	26.87	121.3	4.08	3.95	1470.
230	4.35	33.86	228	26.87	121.4	4.20	4.23	1471.
240	4.23	33.87	238	26.89	119.5	4.32	4.52	1470.
250	4.18	33.87	248	26.89	119.1	4.44	4.81	1470.
260	4.17	33.88	258	26.90	118.3	4.56	5.12	1470.
270	4.09	33.89	268	26.92	116.7	4.67	5.44	1470.
280	4.05	33.90	278	26.93	115.7	4.79	5.77	1470.
290	4.06	33.90	288	26.93	115.5	4.91	6.10	1470.
300	4.04	33.91	298	26.94	115.0	5.02	6.45	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 40

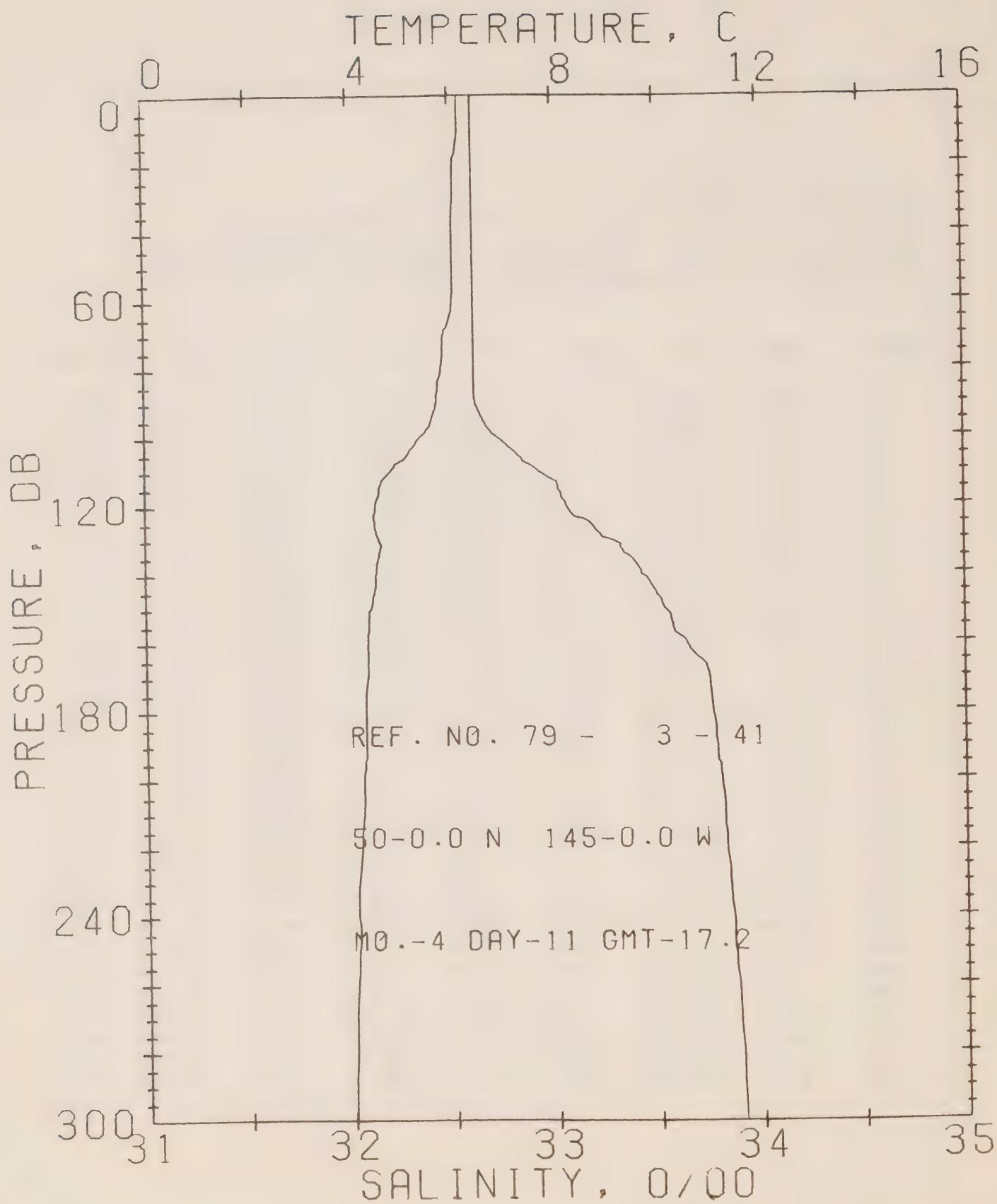
DATE 11/ 4/79

POSITION 49-52.0N, 145- 7.0W GMT 2.9 STATION W3

RESULTS OF STP CAST 157 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.33	32.58	0	25.63	237.1	.00	.00	1473.
10	6.35	32.58	10	25.62	237.5	.24	.01	1473.
20	6.26	32.58	20	25.63	236.5	.47	.05	1473.
30	6.18	32.58	30	25.65	235.6	.71	.11	1473.
40	6.16	32.58	40	25.65	235.6	.95	.19	1473.
50	6.13	32.58	50	25.65	235.3	1.18	.30	1473.
60	6.02	32.58	60	25.66	234.1	1.42	.43	1473.
70	5.93	32.59	70	25.68	232.8	1.65	.59	1473.
80	5.63	32.60	79	25.73	228.3	1.88	.76	1472.
90	5.52	32.60	89	25.74	227.2	2.11	.96	1471.
100	5.50	32.63	99	25.77	224.8	2.33	1.18	1472.
110	5.30	32.73	109	25.87	215.2	2.55	1.42	1471.
120	4.92	33.02	119	26.14	189.4	2.76	1.66	1470.
130	4.55	33.21	129	26.33	171.3	2.94	1.89	1469.
140	4.44	33.38	139	26.48	157.5	3.11	2.11	1469.
150	4.49	33.54	149	26.60	146.1	3.26	2.34	1469.
160	4.48	33.64	159	26.68	138.6	3.40	2.56	1470.
170	4.45	33.71	169	26.74	133.2	3.54	2.79	1470.
180	4.47	33.75	179	26.77	130.5	3.67	3.02	1470.
190	4.50	33.79	189	26.80	127.9	3.80	3.27	1470.
200	4.48	33.79	199	26.80	127.8	3.92	3.52	1471.
210	4.33	33.80	209	26.82	125.5	4.05	3.79	1470.
220	4.29	33.83	218	26.85	123.0	4.17	4.06	1470.
230	4.26	33.85	228	26.87	121.2	4.30	4.34	1470.
240	4.24	33.87	238	26.88	119.7	4.42	4.63	1470.
250	4.20	33.88	248	26.90	118.5	4.54	4.92	1470.
260	4.19	33.89	258	26.91	117.8	4.65	5.23	1470.
270	4.16	33.90	268	26.92	116.8	4.77	5.55	1470.
280	4.12	33.91	278	26.93	115.5	4.89	5.87	1470.
290	4.08	33.92	288	26.94	114.7	5.00	6.21	1470.
300	4.09	33.93	298	26.95	114.1	5.12	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 41

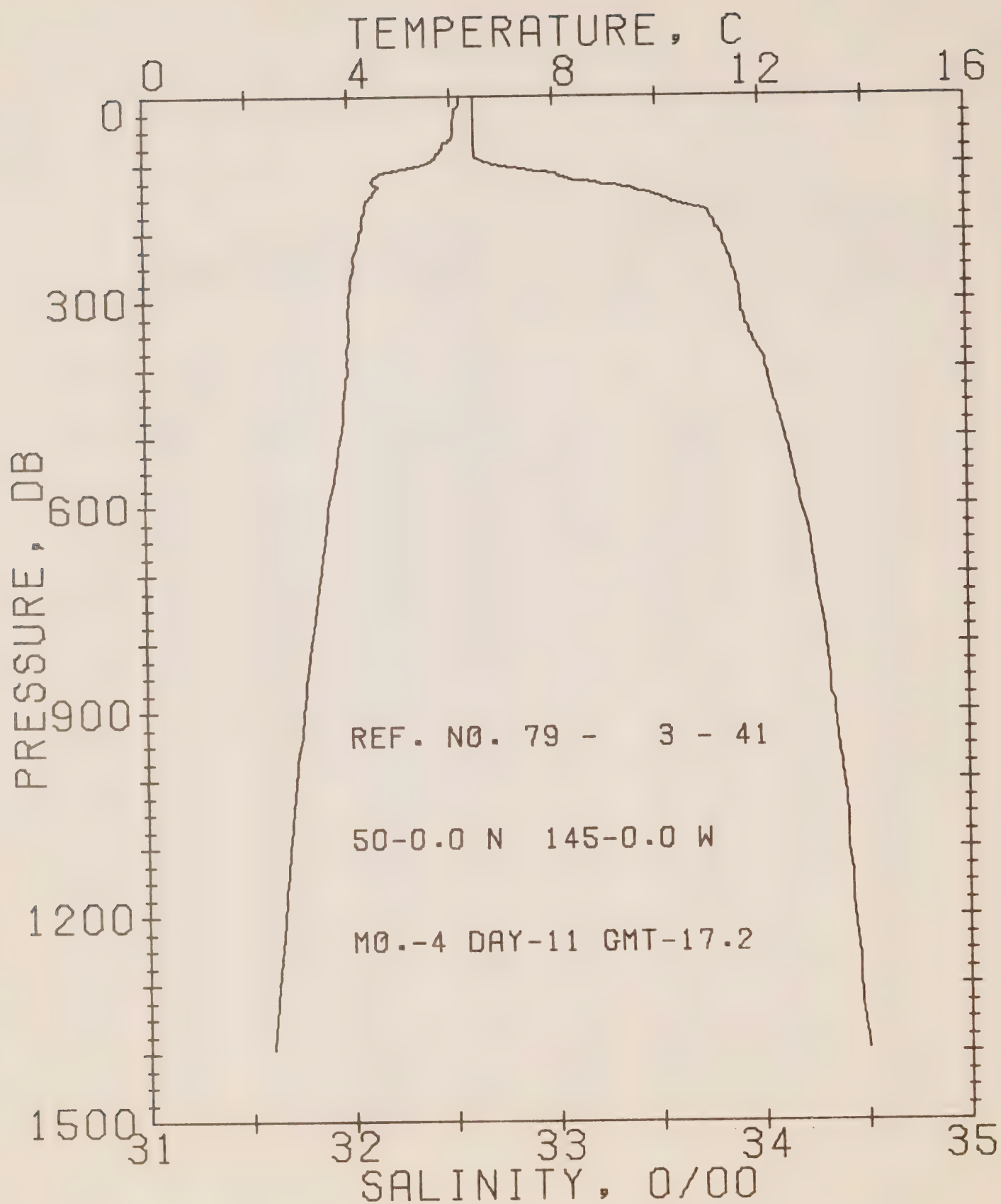
DATE 11/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.61	0	25.67	233.1	.00	.00	1473.
10	6.18	32.61	10	25.67	233.2	.23	.01	1473.
20	6.08	32.61	20	25.68	232.2	.47	.05	1473.
30	6.07	32.61	30	25.68	232.1	.70	.11	1473.
40	6.06	32.61	40	25.68	232.1	.93	.19	1473.
50	6.06	32.61	50	25.68	232.3	1.16	.30	1473.
60	6.03	32.61	60	25.69	232.0	1.39	.43	1473.
70	5.87	32.61	70	25.71	230.2	1.63	.58	1473.
80	5.80	32.61	79	25.71	229.5	1.86	.76	1472.
90	5.70	32.62	89	25.73	227.7	2.08	.95	1472.
100	5.39	32.72	99	25.85	216.5	2.31	1.17	1471.
110	4.81	32.93	109	26.08	194.9	2.51	1.39	1469.
120	4.49	33.06	119	26.22	181.9	2.70	1.61	1468.
130	4.55	33.28	129	26.39	166.1	2.88	1.83	1469.
140	4.51	33.42	139	26.50	155.3	3.04	2.05	1469.
150	4.40	33.53	149	26.60	145.9	3.18	2.27	1469.
160	4.33	33.64	159	26.69	137.1	3.33	2.50	1469.
170	4.32	33.75	169	26.78	128.8	3.46	2.72	1469.
180	4.27	33.77	179	26.80	126.9	3.59	2.95	1469.
190	4.26	33.79	189	26.82	125.4	3.71	3.18	1469.
200	4.22	33.81	199	26.84	123.5	3.84	3.43	1469.
210	4.19	33.82	209	26.85	122.6	3.96	3.69	1470.
220	4.15	33.83	218	26.86	121.5	4.08	3.96	1470.
230	4.10	33.84	228	26.88	120.0	4.20	4.23	1469.
240	4.09	33.86	238	26.89	118.9	4.32	4.52	1470.
250	4.09	33.87	248	26.90	118.4	4.44	4.82	1470.
260	4.06	33.88	258	26.91	117.2	4.56	5.12	1470.
270	4.03	33.89	268	26.92	116.2	4.68	5.44	1470.
280	4.02	33.90	278	26.93	115.5	4.79	5.76	1470.
290	4.01	33.90	288	26.94	115.2	4.91	6.10	1470.
300	3.99	33.91	298	26.94	114.5	5.02	6.44	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 41

DATE 11/ 4/79

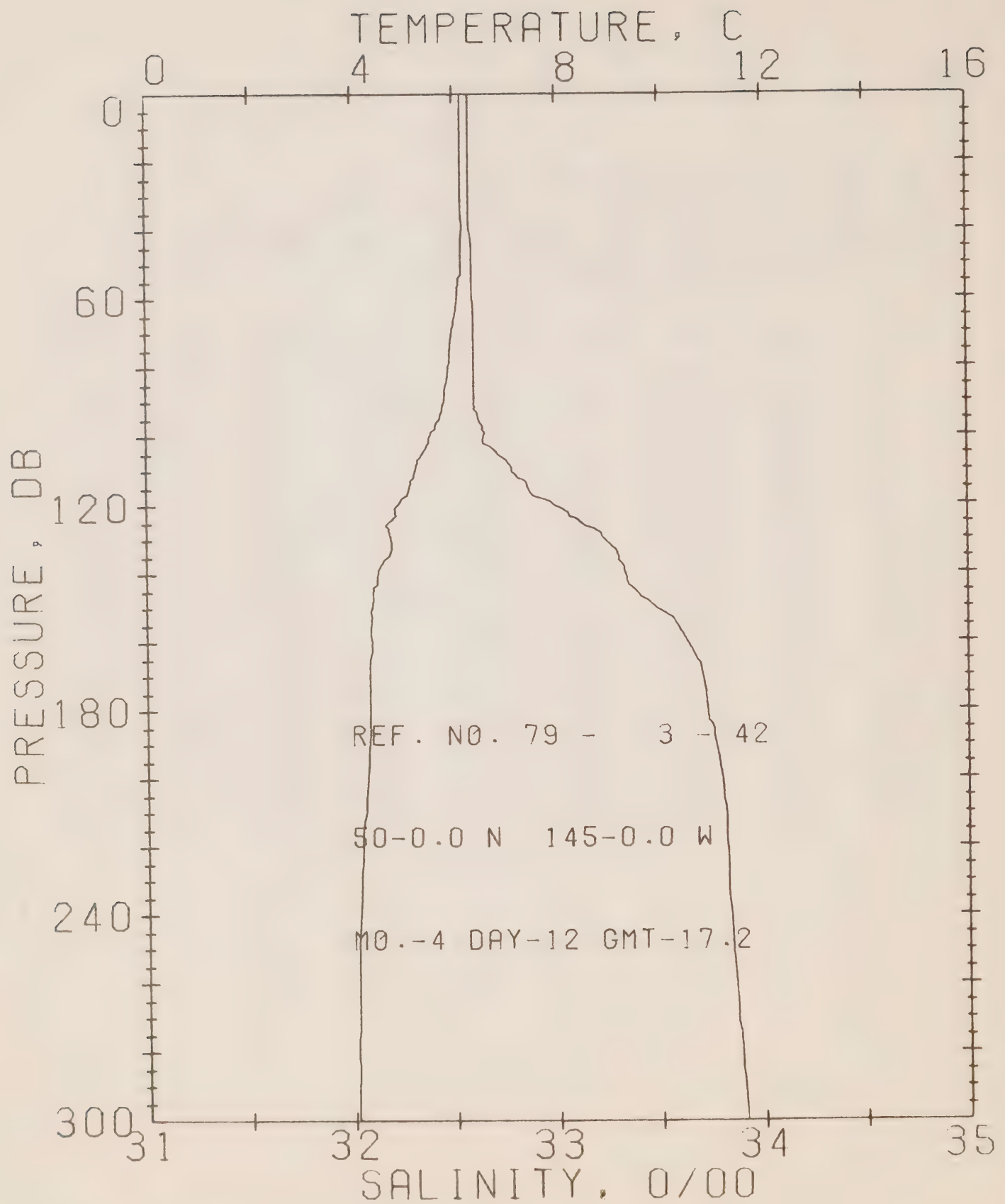
POSITION 50- .0N, 145- .0W GMT 17.2

STATION P

RESULTS OF STP CAST 203 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

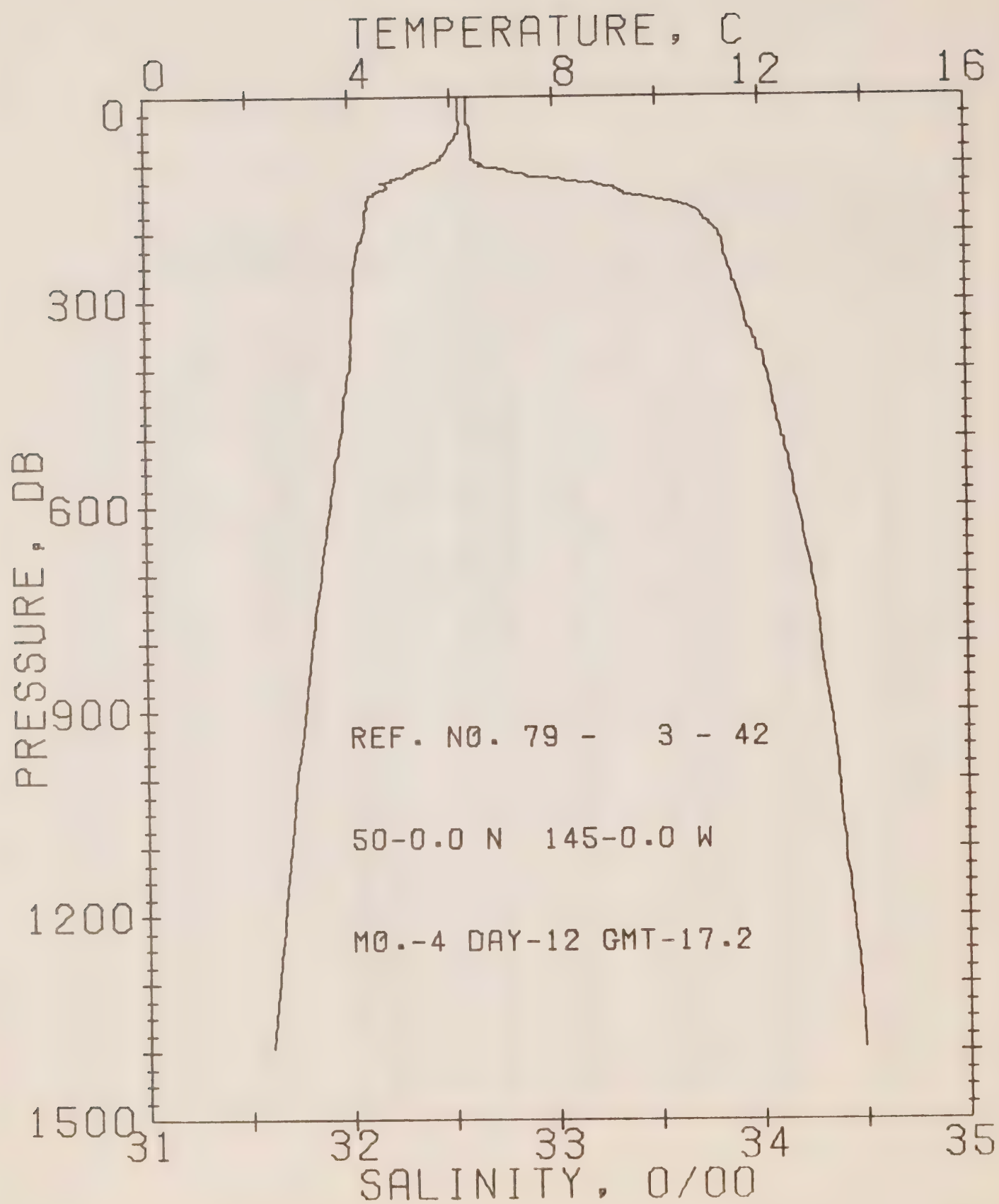
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.61	0	25.67	233.1	.00	.00	1473.
10	6.18	32.61	10	25.67	233.2	.23	.01	1473.
20	6.08	32.61	20	25.68	232.2	.47	.05	1473.
30	6.07	32.61	30	25.68	232.1	.70	.11	1473.
50	6.06	32.61	50	25.68	232.3	1.16	.30	1473.
75	5.84	32.61	75	25.71	229.9	1.74	.66	1472.
100	5.39	32.72	99	25.85	216.5	2.31	1.17	1471.
125	4.47	33.18	124	26.32	172.7	2.79	1.72	1468.
150	4.40	33.55	149	26.60	145.9	3.18	2.27	1469.
175	4.29	33.76	174	26.79	127.9	3.52	2.83	1469.
200	4.22	33.81	199	26.84	123.5	3.84	3.43	1469.
225	4.12	33.84	223	26.87	120.5	4.14	4.09	1469.
250	4.09	33.87	248	26.90	118.4	4.44	4.82	1470.
300	3.99	33.91	298	26.94	114.5	5.02	6.44	1470.
400	3.97	34.02	397	27.04	106.7	6.13	10.40	1472.
500	3.81	34.11	496	27.12	99.3	7.16	15.12	1473.
600	3.57	34.19	595	27.20	91.9	8.12	20.45	1474.
800	3.19	34.31	793	27.34	80.0	9.83	32.64	1476.
1000	2.88	34.39	990	27.43	72.2	11.35	46.60	1478.
1200	2.64	34.44	1188	27.49	67.0	12.74	62.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 42 DATE 12/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE
 GUIDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.17	32.58	0	25.65	235.2	.00	.00	1473.
10	6.17	32.58	10	25.65	235.3	.24	.01	1473.
20	6.17	32.58	20	25.65	235.5	.47	.05	1473.
30	6.17	32.58	30	25.65	235.6	.71	.11	1473.
40	6.18	32.58	40	25.65	235.6	.94	.19	1473.
50	6.16	32.59	50	25.65	234.9	1.18	.30	1473.
60	6.06	32.59	60	25.67	233.7	1.41	.43	1473.
70	5.97	32.60	70	25.69	232.1	1.64	.59	1473.
80	5.90	32.60	79	25.69	231.4	1.88	.76	1473.
90	5.80	32.60	89	25.71	230.4	2.11	.96	1473.
100	5.52	32.64	99	25.78	223.9	2.33	1.18	1472.
110	5.23	32.78	109	25.92	210.7	2.55	1.42	1471.
120	4.87	32.99	119	26.12	191.1	2.75	1.65	1470.
130	4.76	33.23	129	26.33	171.7	2.93	1.88	1470.
140	4.50	33.34	139	26.43	161.5	3.10	2.11	1469.
150	4.37	33.48	149	26.56	149.4	3.26	2.34	1469.
160	4.36	33.63	159	26.68	138.1	3.40	2.57	1469.
170	4.33	33.70	169	26.75	132.3	3.53	2.79	1469.
180	4.33	33.73	179	26.76	130.8	3.67	3.03	1469.
190	4.31	33.77	189	26.80	127.4	3.79	3.27	1470.
200	4.27	33.80	199	26.83	124.8	3.92	3.52	1470.
210	4.23	33.82	209	26.85	123.0	4.04	3.78	1470.
220	4.17	33.82	218	26.86	122.2	4.17	4.05	1470.
230	4.14	33.83	228	26.86	121.5	4.29	4.33	1470.
240	4.11	33.84	238	26.88	120.5	4.41	4.62	1470.
250	4.09	33.85	248	26.89	119.6	4.53	4.92	1470.
260	4.07	33.86	258	26.90	118.7	4.65	5.23	1470.
270	4.08	33.87	268	26.90	118.2	4.77	5.55	1470.
280	4.05	33.89	278	26.92	116.5	4.88	5.88	1470.
290	4.06	33.90	288	26.93	116.1	5.00	6.21	1470.
300	4.04	33.91	298	26.94	115.0	5.12	6.56	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 42

DATE 12/ 4/79

POSITION 50- .0N, 145- .0W

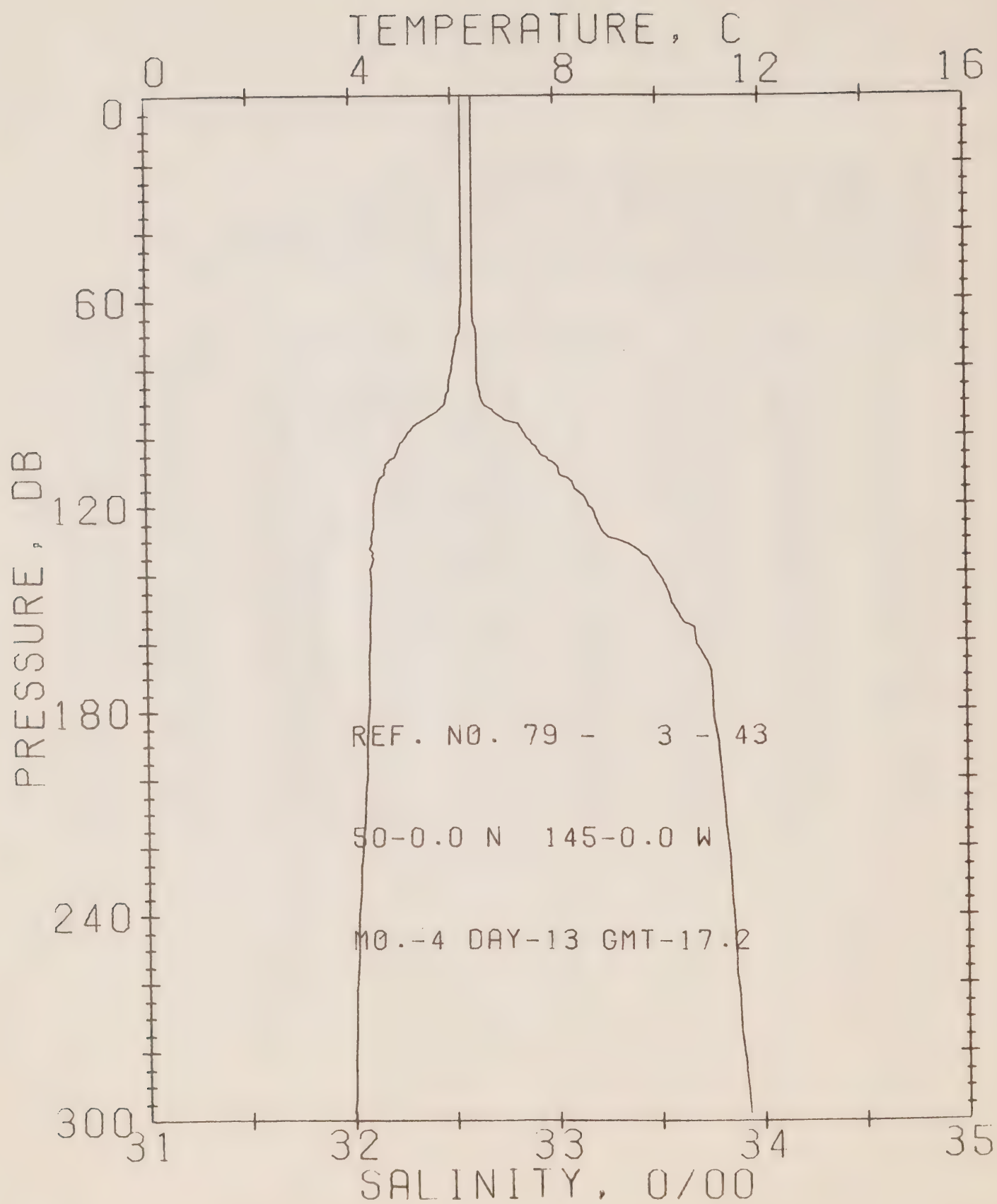
GMT 17.2

STATION P

RESULTS OF STP CAST 200 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.17	32.58	0	25.65	235.2	.00	.00	1473.
10	6.17	32.58	10	25.65	235.3	.24	.01	1473.
20	6.17	32.58	20	25.65	235.5	.47	.05	1473.
30	6.17	32.58	30	25.65	235.6	.71	.11	1473.
50	6.16	32.59	50	25.65	234.9	1.18	.30	1473.
75	5.93	32.60	75	25.69	231.7	1.76	.67	1473.
100	5.52	32.64	99	25.78	223.9	2.33	1.18	1472.
125	4.70	33.11	124	26.24	180.0	2.85	1.77	1469.
150	4.37	33.48	149	26.56	149.4	3.26	2.34	1469.
175	4.33	33.72	174	26.76	131.2	3.60	2.91	1469.
200	4.27	33.80	199	26.83	124.8	3.92	3.52	1470.
225	4.16	33.83	223	26.86	121.6	4.23	4.19	1470.
250	4.09	33.85	248	26.89	119.6	4.53	4.92	1470.
300	4.04	33.91	298	26.94	115.0	5.12	6.56	1470.
400	3.98	34.02	397	27.04	106.7	6.23	10.52	1472.
500	3.80	34.10	496	27.12	99.7	7.26	15.24	1473.
600	3.59	34.17	595	27.19	92.9	8.22	20.62	1474.
800	3.22	34.29	793	27.32	82.0	9.96	32.98	1476.
1000	2.91	34.37	990	27.42	73.6	11.51	47.19	1478.
1200	2.65	34.44	1188	27.49	67.2	12.92	63.01	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 43

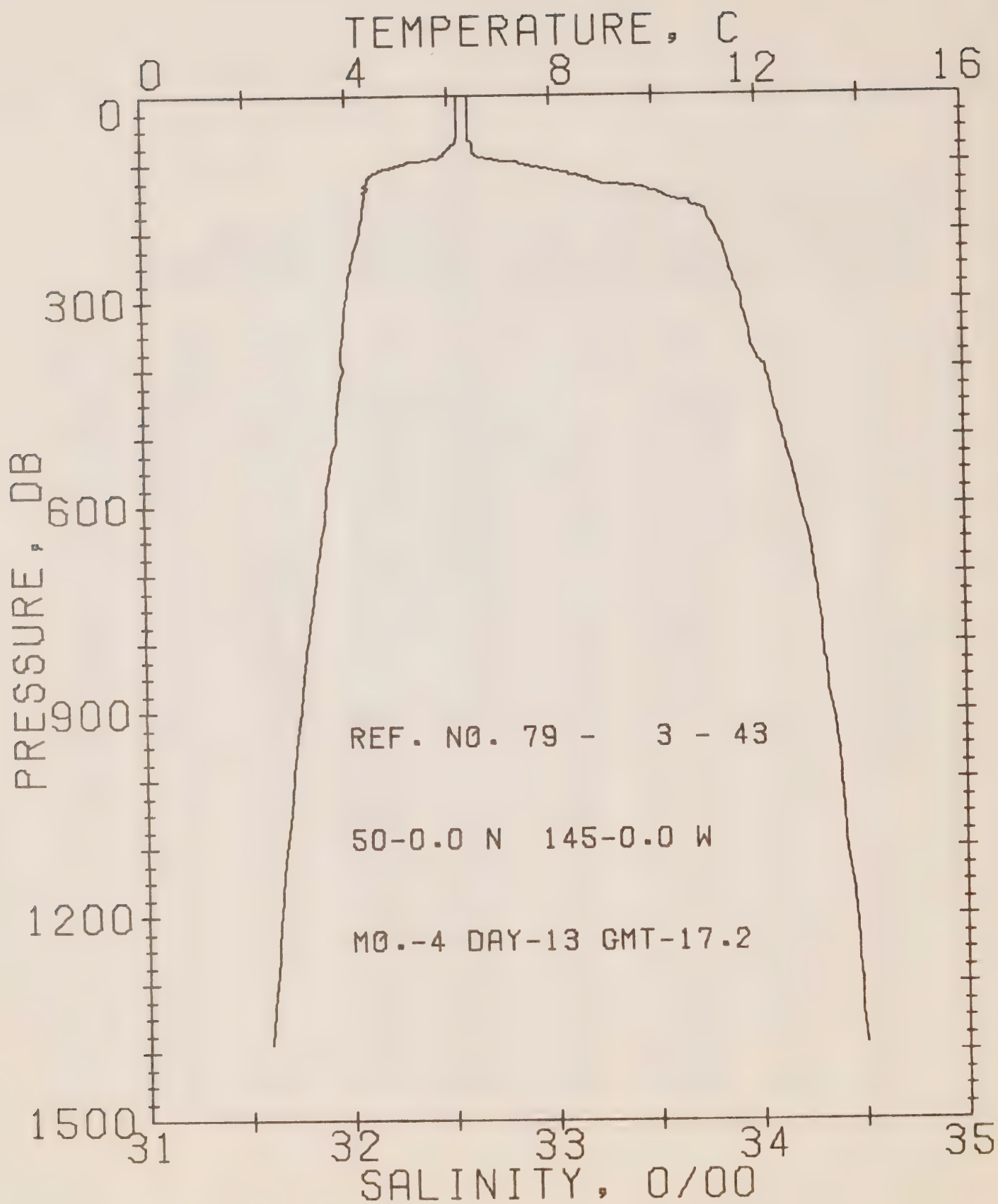
DATE 13/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 100 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.60	0	25.66	233.9	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
40	6.18	32.60	40	25.66	234.3	.94	.19	1473.
50	6.18	32.60	50	25.66	234.4	1.17	.30	1473.
60	6.18	32.60	60	25.66	234.5	1.41	.43	1474.
70	6.14	32.62	70	25.68	232.7	1.64	.59	1474.
80	5.98	32.62	79	25.70	230.9	1.87	.76	1473.
90	5.84	32.64	89	25.74	227.7	2.10	.96	1473.
100	5.07	32.86	99	26.00	202.8	2.32	1.17	1470.
110	4.65	33.01	109	26.16	187.2	2.51	1.38	1469.
120	4.43	33.16	119	26.30	173.7	2.69	1.59	1468.
130	4.37	33.31	129	26.43	162.0	2.86	1.80	1468.
140	4.36	33.50	139	26.58	147.7	3.01	2.01	1469.
150	4.35	33.58	149	26.64	141.7	3.16	2.23	1469.
160	4.34	33.68	159	26.73	134.2	3.29	2.44	1469.
170	4.32	33.75	169	26.78	128.6	3.42	2.66	1469.
180	4.31	33.76	179	26.80	127.7	3.55	2.89	1469.
190	4.28	33.79	189	26.82	125.6	3.68	3.13	1470.
200	4.25	33.80	199	26.83	124.5	3.80	3.38	1470.
210	4.22	33.82	209	26.85	123.0	3.93	3.64	1470.
220	4.17	33.84	218	26.87	121.3	4.05	3.91	1470.
230	4.13	33.85	228	26.88	120.1	4.17	4.18	1470.
240	4.10	33.86	238	26.89	119.1	4.29	4.47	1470.
250	4.08	33.87	248	26.90	118.2	4.41	4.76	1470.
260	4.04	33.87	258	26.91	117.3	4.53	5.07	1470.
270	4.03	33.89	268	26.92	116.3	4.64	5.39	1470.
280	4.01	33.90	278	26.94	115.1	4.76	5.71	1470.
290	4.00	33.92	288	26.95	114.1	4.87	6.04	1470.
300	3.98	33.93	298	26.96	112.9	4.99	6.38	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 43

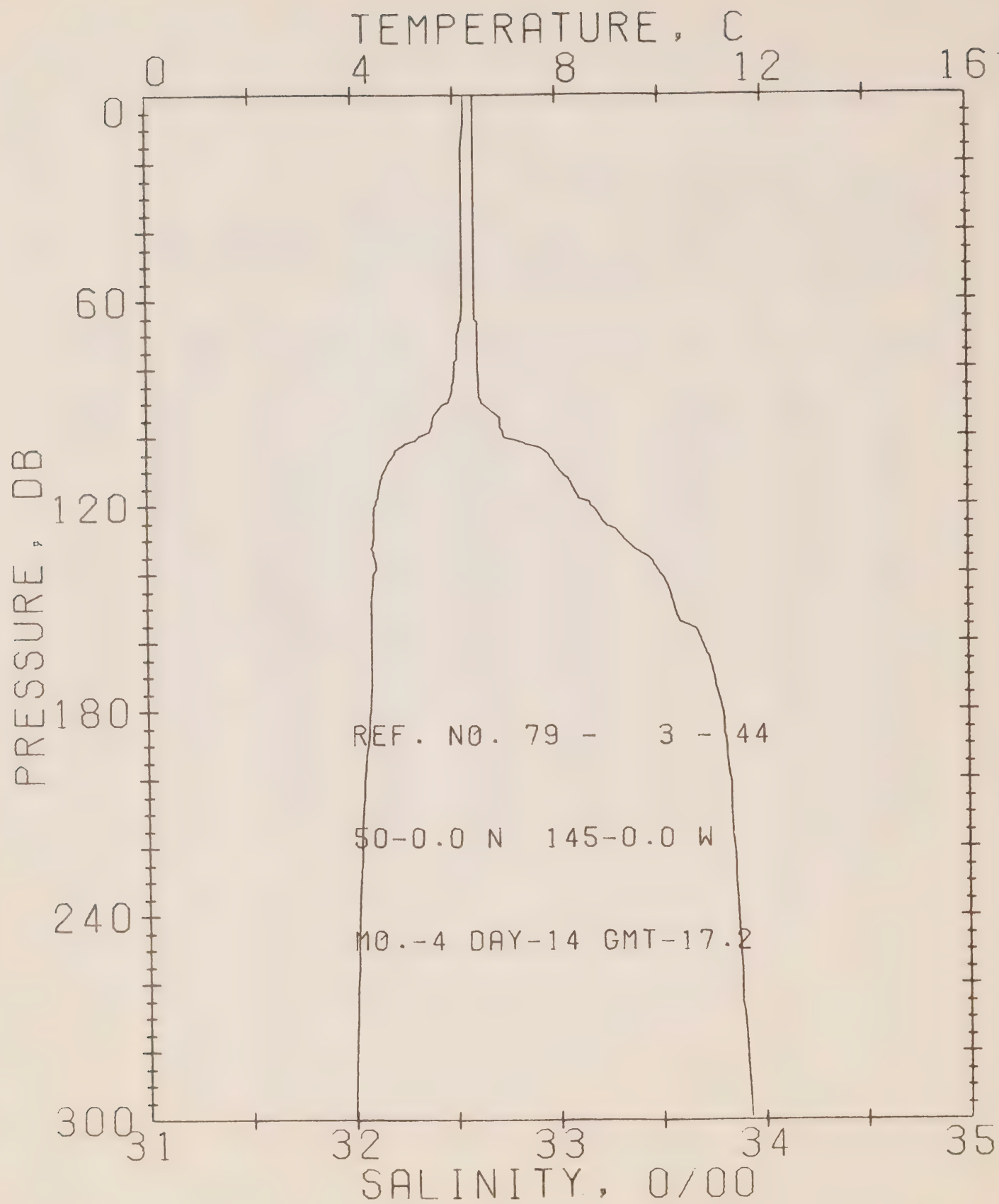
DATE 13/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DLPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.18	32.60	0	25.66	233.9	.00	.00	1473.
10	6.18	32.60	10	25.66	234.0	.23	.01	1473.
20	6.18	32.60	20	25.66	234.1	.47	.05	1473.
30	6.18	32.60	30	25.66	234.2	.70	.11	1473.
50	6.18	32.60	50	25.66	234.4	1.17	.30	1473.
75	6.05	32.62	75	25.69	231.6	1.76	.67	1473.
100	5.07	32.86	99	26.00	202.8	2.32	1.17	1470.
125	4.42	33.20	124	26.34	170.5	2.77	1.69	1468.
150	4.35	33.58	149	26.64	141.7	3.16	2.23	1469.
175	4.31	33.76	174	26.79	128.0	3.49	2.78	1469.
200	4.25	33.80	199	26.83	124.5	3.80	3.38	1470.
225	4.14	33.84	223	26.87	120.7	4.11	4.04	1470.
250	4.08	33.87	248	26.90	118.2	4.41	4.76	1470.
300	3.98	33.93	298	26.96	112.9	4.99	6.38	1470.
400	3.91	34.04	397	27.05	105.1	6.09	10.30	1472.
500	3.75	34.12	496	27.13	98.2	7.10	14.95	1473.
600	3.53	34.20	595	27.22	90.6	8.04	20.21	1474.
800	3.15	34.30	793	27.34	80.0	9.73	32.23	1475.
1000	2.85	34.39	990	27.43	71.6	11.24	46.05	1478.
1200	2.58	34.46	1188	27.51	65.0	12.61	61.40	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 44

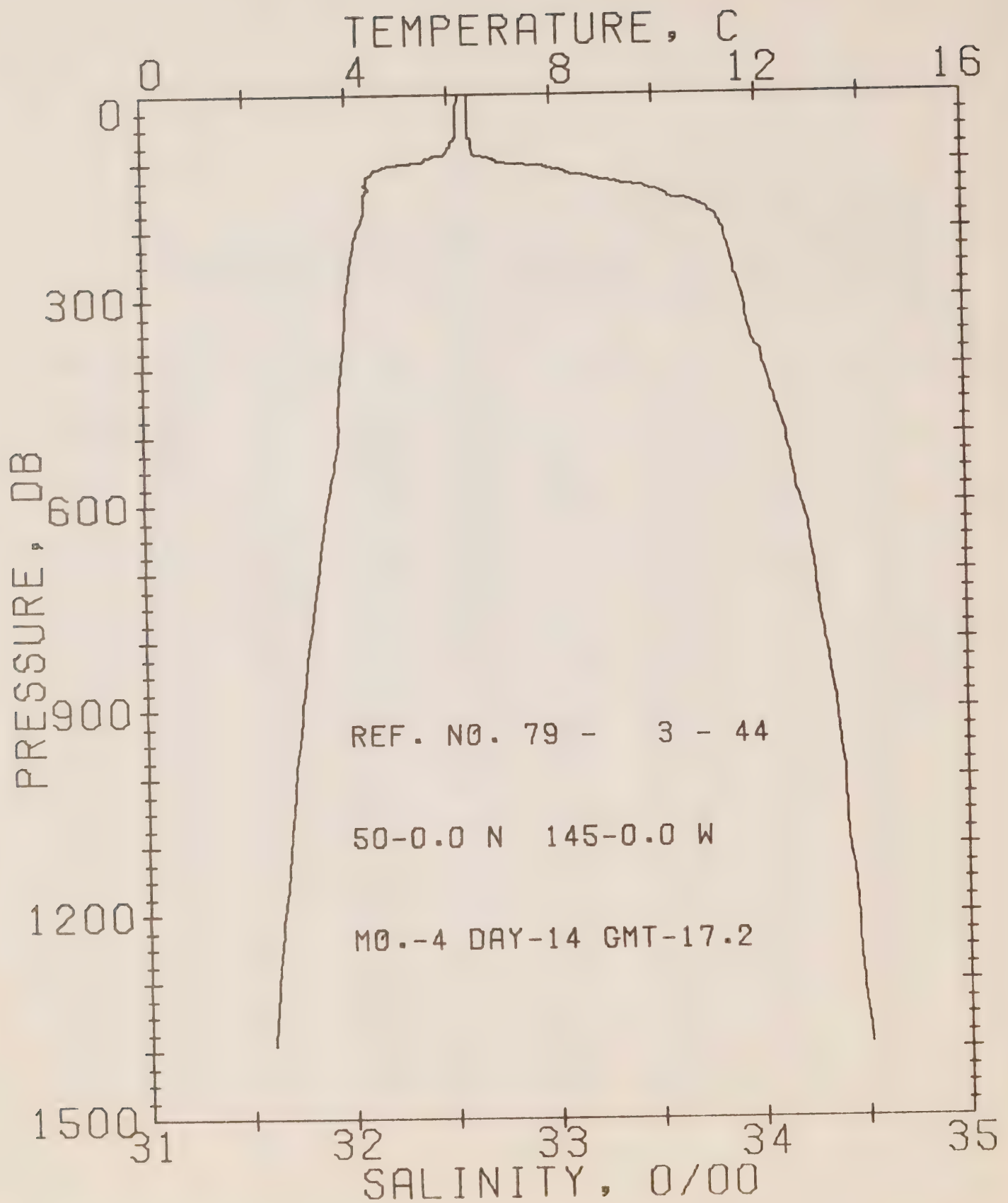
DATE 14/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 106 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.21	32.60	0	25.66	234.2	.00	.00	1473.
10	6.20	32.60	10	25.66	234.2	.23	.01	1473.
20	6.17	32.60	20	25.66	233.9	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
40	6.16	32.60	40	25.66	234.1	.94	.19	1473.
50	6.16	32.60	50	25.66	234.2	1.17	.30	1473.
60	6.16	32.60	60	25.66	234.3	1.40	.43	1474.
70	6.06	32.61	70	25.68	232.5	1.64	.58	1473.
80	5.99	32.61	79	25.69	231.8	1.87	.76	1473.
90	5.88	32.63	89	25.72	229.1	2.10	.96	1473.
100	5.29	32.74	99	25.88	214.2	2.32	1.17	1471.
110	4.62	33.01	109	26.16	186.9	2.52	1.38	1469.
120	4.43	33.16	119	26.30	173.7	2.70	1.60	1468.
130	4.40	33.33	129	26.44	160.8	2.87	1.81	1468.
140	4.40	33.50	139	26.58	148.1	3.02	2.02	1469.
150	4.34	33.57	149	26.63	142.7	3.16	2.23	1469.
160	4.34	33.70	159	26.74	132.8	3.30	2.45	1469.
170	4.34	33.76	169	26.79	128.3	3.43	2.67	1469.
180	4.32	33.80	179	26.82	125.2	3.56	2.90	1470.
190	4.27	33.82	189	26.84	123.2	3.68	3.13	1470.
200	4.21	33.84	199	26.86	121.3	3.80	3.37	1469.
210	4.16	33.84	209	26.87	120.6	3.93	3.63	1469.
220	4.13	33.86	218	26.89	119.4	4.05	3.89	1469.
230	4.11	33.86	228	26.89	118.7	4.16	4.16	1470.
240	4.08	33.87	238	26.90	117.8	4.28	4.45	1470.
250	4.06	33.88	248	26.91	117.1	4.40	4.74	1470.
260	4.03	33.89	258	26.92	116.1	4.52	5.04	1470.
270	4.02	33.90	268	26.93	115.3	4.63	5.35	1470.
280	4.00	33.91	278	26.94	114.3	4.75	5.68	1470.
290	3.99	33.92	288	26.95	113.5	4.86	6.01	1470.
300	3.97	33.93	298	26.96	112.8	4.97	6.35	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 44

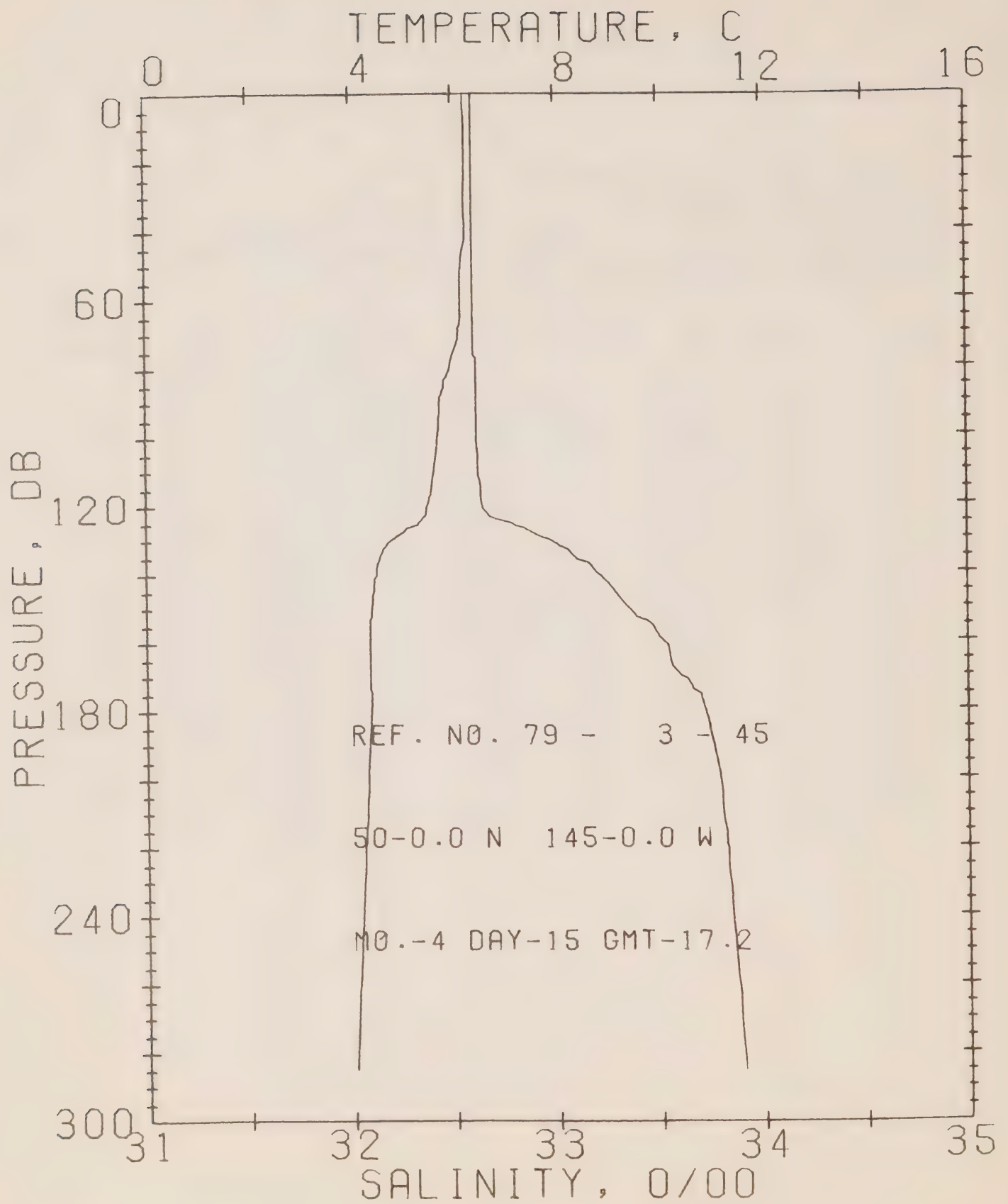
DATE 14/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.21	32.60	0	25.66	234.2	.00	.00	1473.
10	6.20	32.60	10	25.66	234.2	.23	.01	1473.
20	6.17	32.60	20	25.66	233.9	.47	.05	1473.
30	6.16	32.60	30	25.66	234.0	.70	.11	1473.
50	6.16	32.60	50	25.66	234.2	1.17	.30	1473.
75	6.06	32.61	75	25.68	232.5	1.75	.67	1473.
100	5.29	32.74	99	25.88	214.2	2.32	1.17	1471.
125	4.41	33.22	124	26.36	168.6	2.78	1.70	1468.
150	4.34	33.57	149	26.63	142.7	3.16	2.23	1469.
175	4.33	33.78	174	26.80	126.8	3.50	2.78	1469.
200	4.21	33.84	199	26.86	121.3	3.80	3.37	1469.
225	4.12	33.86	223	26.89	118.9	4.11	4.03	1469.
250	4.06	33.88	248	26.91	117.1	4.40	4.74	1470.
300	3.97	33.93	298	26.96	112.8	4.97	6.35	1470.
400	3.87	34.03	397	27.05	105.4	6.07	10.26	1472.
500	3.78	34.13	496	27.14	97.6	7.09	14.90	1473.
600	3.56	34.20	595	27.22	90.9	8.03	20.20	1474.
800	3.18	34.31	793	27.34	79.9	9.73	32.27	1476.
1000	2.88	34.40	990	27.44	71.3	11.23	46.01	1478.
1200	2.62	34.46	1188	27.51	65.3	12.60	61.38	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 45

DATE 15/ 4/79

POSITION 50- .0N, 145- .0W

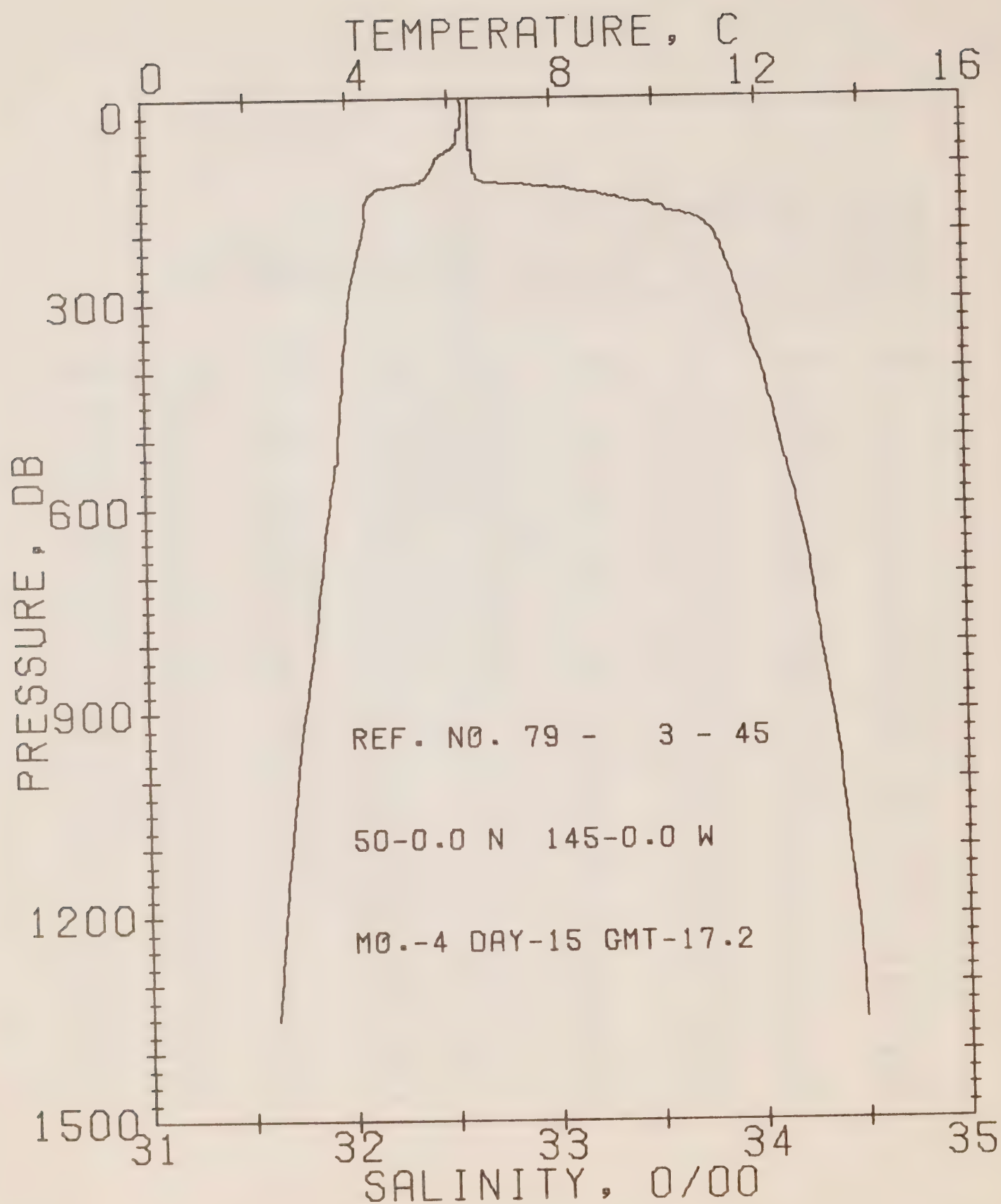
GMT 17.2

STATION P

RESULTS OF STP CAST 107 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.60	0	25.65	234.7	.00	.00	1473.
10	6.26	32.60	10	25.65	234.9	.23	.01	1473.
20	6.26	32.60	20	25.65	235.0	.47	.05	1473.
30	6.25	32.60	30	25.65	235.1	.70	.11	1473.
40	6.26	32.60	40	25.65	235.3	.94	.19	1474.
50	6.17	32.60	50	25.66	234.3	1.17	.30	1473.
60	6.16	32.60	60	25.66	234.3	1.41	.43	1474.
70	6.11	32.60	70	25.67	233.8	1.64	.59	1473.
80	5.94	32.61	79	25.70	231.2	1.88	.76	1473.
90	5.73	32.61	89	25.72	228.8	2.11	.96	1472.
100	5.69	32.61	99	25.73	228.5	2.33	1.18	1472.
110	5.62	32.62	109	25.74	227.0	2.56	1.43	1472.
120	5.48	32.64	119	25.77	224.3	2.79	1.69	1472.
130	4.81	32.96	129	26.10	192.8	3.00	1.96	1470.
140	4.48	33.19	139	26.32	172.2	3.18	2.21	1469.
150	4.38	33.35	149	26.46	159.3	3.35	2.45	1469.
160	4.35	33.52	159	26.60	146.3	3.50	2.69	1469.
170	4.35	33.60	169	26.66	140.4	3.64	2.94	1469.
180	4.35	33.72	179	26.76	131.5	3.78	3.18	1470.
190	4.32	33.76	189	26.79	128.2	3.91	3.42	1470.
200	4.30	33.79	199	26.82	125.6	4.03	3.67	1470.
210	4.26	33.81	209	26.83	124.4	4.16	3.93	1470.
220	4.22	33.83	218	26.86	122.2	4.28	4.21	1470.
230	4.20	33.84	228	26.86	121.5	4.40	4.49	1470.
240	4.17	33.85	238	26.88	120.5	4.52	4.77	1470.
250	4.12	33.86	248	26.89	119.2	4.64	5.07	1470.
260	4.09	33.87	258	26.91	117.8	4.76	5.38	1470.
270	4.06	33.89	268	26.92	116.8	4.88	5.70	1470.
280	4.04	33.90	278	26.93	115.8	5.00	6.02	1470.
290	4.02	33.91	288	26.94	115.0	5.11	6.36	1470.
300	4.00	33.92	298	26.95	114.0	5.23	6.70	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 45

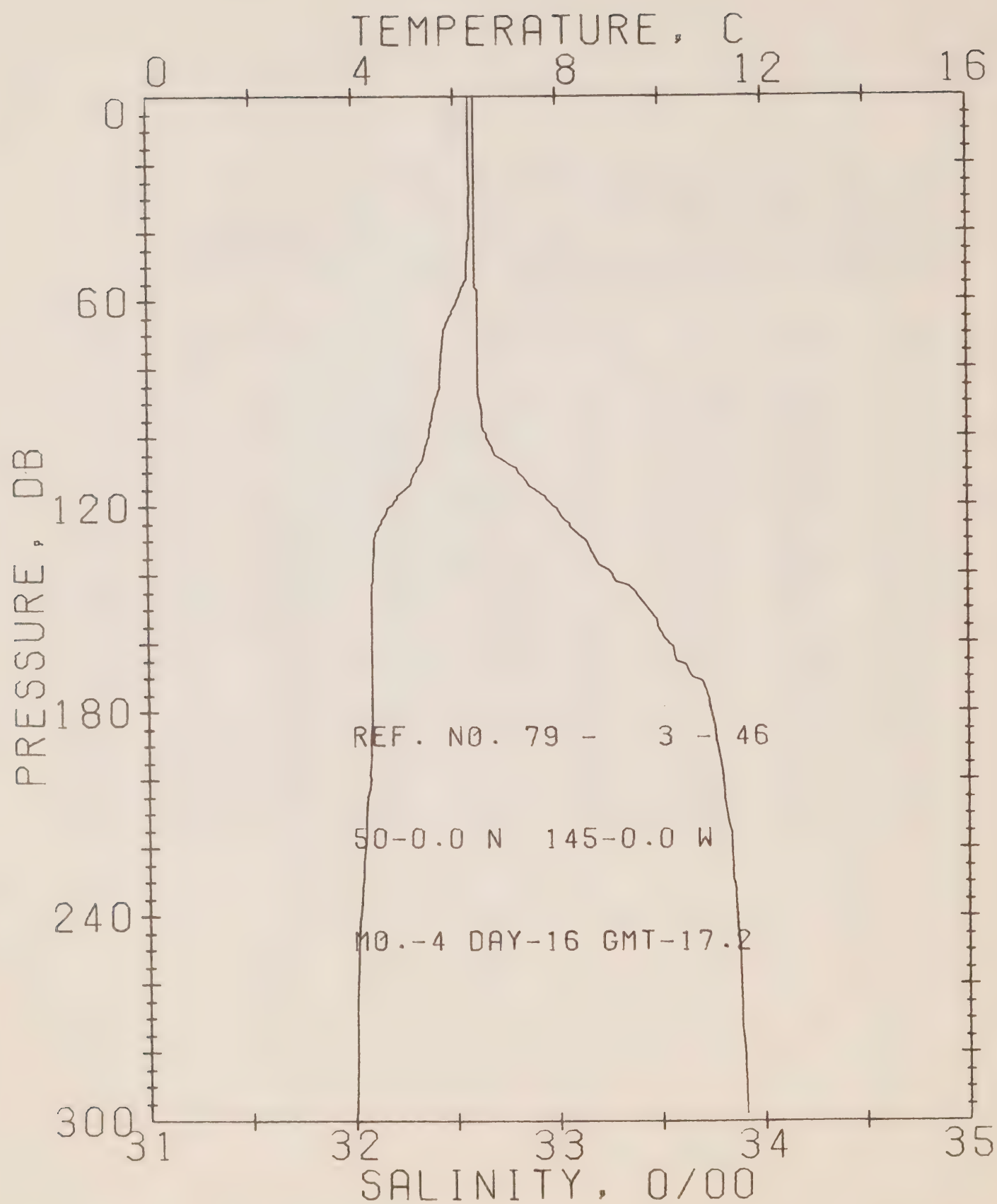
DATE 15/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

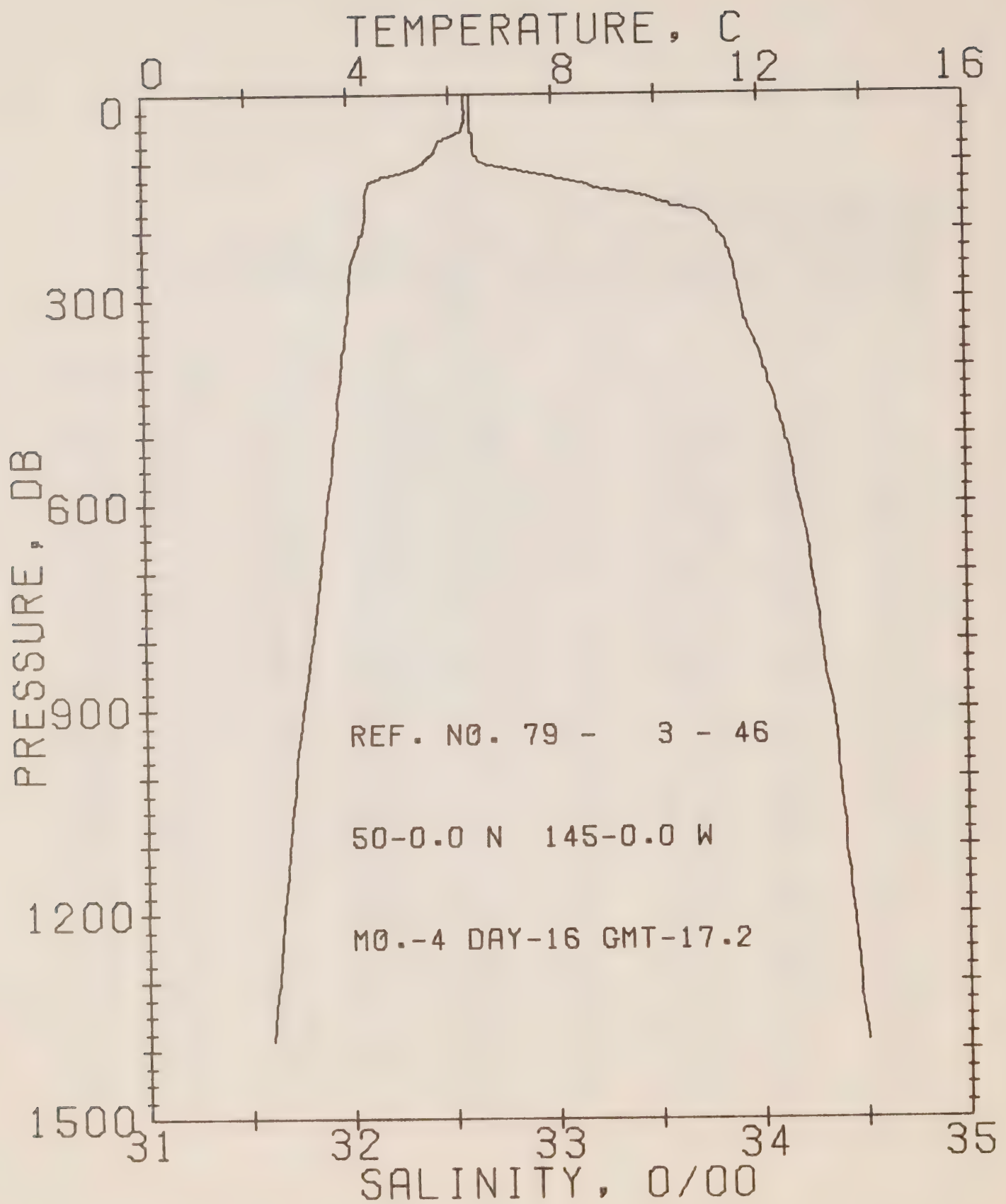
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.25	32.60	0	25.65	234.7	.00	.00	1473.
10	6.26	32.60	10	25.65	234.9	.23	.01	1473.
20	6.26	32.60	20	25.65	235.0	.47	.05	1473.
30	6.25	32.60	30	25.65	235.1	.70	.11	1473.
50	6.17	32.60	50	25.66	234.3	1.17	.30	1473.
75	6.03	32.60	75	25.68	232.9	1.76	.67	1473.
100	5.69	32.61	99	25.73	228.5	2.33	1.18	1472.
125	5.32	32.78	124	25.91	211.8	2.90	1.83	1471.
150	4.38	33.35	149	26.46	159.3	3.35	2.45	1469.
175	4.36	33.70	174	26.74	133.0	3.71	3.06	1469.
200	4.30	33.79	199	26.82	125.6	4.03	3.67	1470.
225	4.21	33.83	223	26.86	122.2	4.34	4.34	1470.
250	4.12	33.86	248	26.89	119.2	4.64	5.07	1470.
300	4.00	33.92	298	26.95	114.0	5.23	6.70	1470.
400	3.87	34.02	397	27.04	106.2	6.33	10.64	1472.
500	3.77	34.10	496	27.12	99.8	7.36	15.36	1473.
600	3.57	34.18	595	27.20	92.5	8.32	20.75	1474.
800	3.25	34.29	793	27.32	82.2	10.06	33.10	1476.
1000	2.89	34.39	990	27.43	72.4	11.59	47.15	1478.
1200	2.63	34.46	1188	27.51	65.4	12.97	62.56	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 46 DATE 16/ 4/79
 POSITION 50- .0N, 145- .0W GMT 17.2 STATION P
 RESULTS OF STP CAST 111 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.30	32.60	10	25.65	235.4	.24	.01	1473.
20	6.30	32.60	20	25.65	235.5	.47	.05	1473.
30	6.30	32.60	30	25.65	235.7	.71	.11	1474.
40	6.30	32.60	40	25.64	235.8	.94	.19	1474.
50	6.25	32.60	50	25.65	235.3	1.18	.30	1474.
60	6.05	32.61	60	25.68	232.2	1.41	.43	1473.
70	5.78	32.61	70	25.72	229.2	1.64	.58	1472.
80	5.72	32.61	79	25.72	228.6	1.87	.76	1472.
90	5.62	32.62	89	25.75	226.5	2.10	.96	1472.
100	5.49	32.65	99	25.78	223.2	2.32	1.17	1472.
110	5.22	32.81	109	25.94	208.3	2.54	1.41	1471.
120	4.74	32.98	119	26.13	190.5	2.74	1.64	1469.
130	4.41	33.14	129	26.29	175.1	2.92	1.87	1468.
140	4.36	33.27	139	26.40	164.9	3.10	2.11	1468.
150	4.34	33.44	149	26.53	152.1	3.25	2.34	1469.
160	4.35	33.54	159	26.61	144.8	3.40	2.58	1469.
170	4.34	33.65	169	26.70	136.5	3.54	2.81	1469.
180	4.34	33.74	179	26.77	129.6	3.67	3.05	1470.
190	4.31	33.78	189	26.80	126.9	3.80	3.29	1470.
200	4.31	33.80	199	26.82	125.2	3.93	3.54	1470.
210	4.23	33.82	209	26.85	122.8	4.05	3.80	1470.
220	4.19	33.84	218	26.87	120.9	4.17	4.07	1470.
230	4.14	33.85	228	26.88	119.7	4.29	4.34	1470.
240	4.10	33.87	238	26.90	118.3	4.41	4.63	1470.
250	4.06	33.88	248	26.91	117.2	4.53	4.92	1470.
260	4.04	33.89	258	26.92	116.5	4.65	5.22	1470.
270	4.03	33.89	268	26.92	116.2	4.76	5.54	1470.
280	4.02	33.90	278	26.93	115.5	4.88	5.86	1470.
290	4.00	33.91	288	26.94	114.9	5.00	6.20	1470.
300	3.99	33.91	298	26.94	114.4	5.11	6.54	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 46

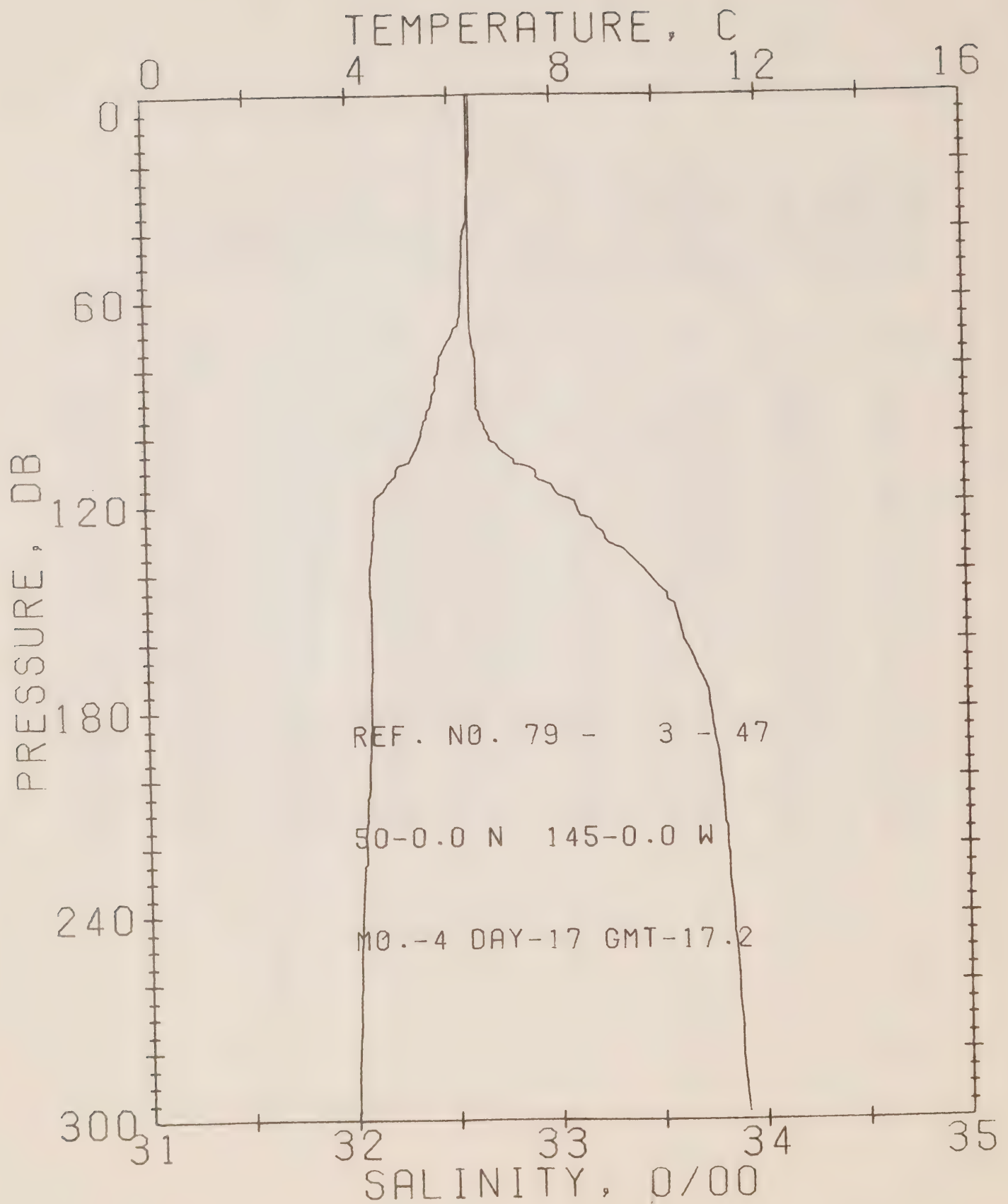
DATE 16/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 174 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.30	32.60	0	25.65	235.3	.00	.00	1473.
10	6.30	32.60	10	25.65	235.4	.24	.01	1473.
20	6.30	32.60	20	25.65	235.5	.47	.05	1473.
30	6.30	32.60	30	25.65	235.7	.71	.11	1474.
50	6.25	32.60	50	25.65	235.3	1.18	.30	1474.
75	5.75	32.61	75	25.72	228.8	1.76	.67	1472.
100	5.49	32.65	99	25.78	223.2	2.32	1.17	1472.
125	4.53	33.06	124	26.21	182.3	2.83	1.76	1469.
150	4.34	33.44	149	26.53	152.1	3.25	2.34	1469.
175	4.34	33.72	174	26.76	131.0	3.61	2.93	1469.
200	4.31	33.80	199	26.82	125.2	3.93	3.54	1470.
225	4.17	33.85	223	26.88	120.2	4.23	4.20	1470.
250	4.06	33.88	248	26.91	117.2	4.53	4.92	1470.
300	3.99	33.91	298	26.94	114.4	5.11	6.54	1470.
400	3.86	34.01	397	27.04	106.1	6.22	10.48	1471.
500	3.71	34.12	496	27.14	97.7	7.23	15.14	1473.
600	3.55	34.19	595	27.21	91.7	8.18	20.44	1474.
800	3.24	34.29	793	27.32	82.0	9.91	32.76	1476.
1000	2.89	34.38	990	27.42	73.2	11.45	46.86	1478.
1200	2.63	34.44	1188	27.49	66.9	12.86	62.59	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 47

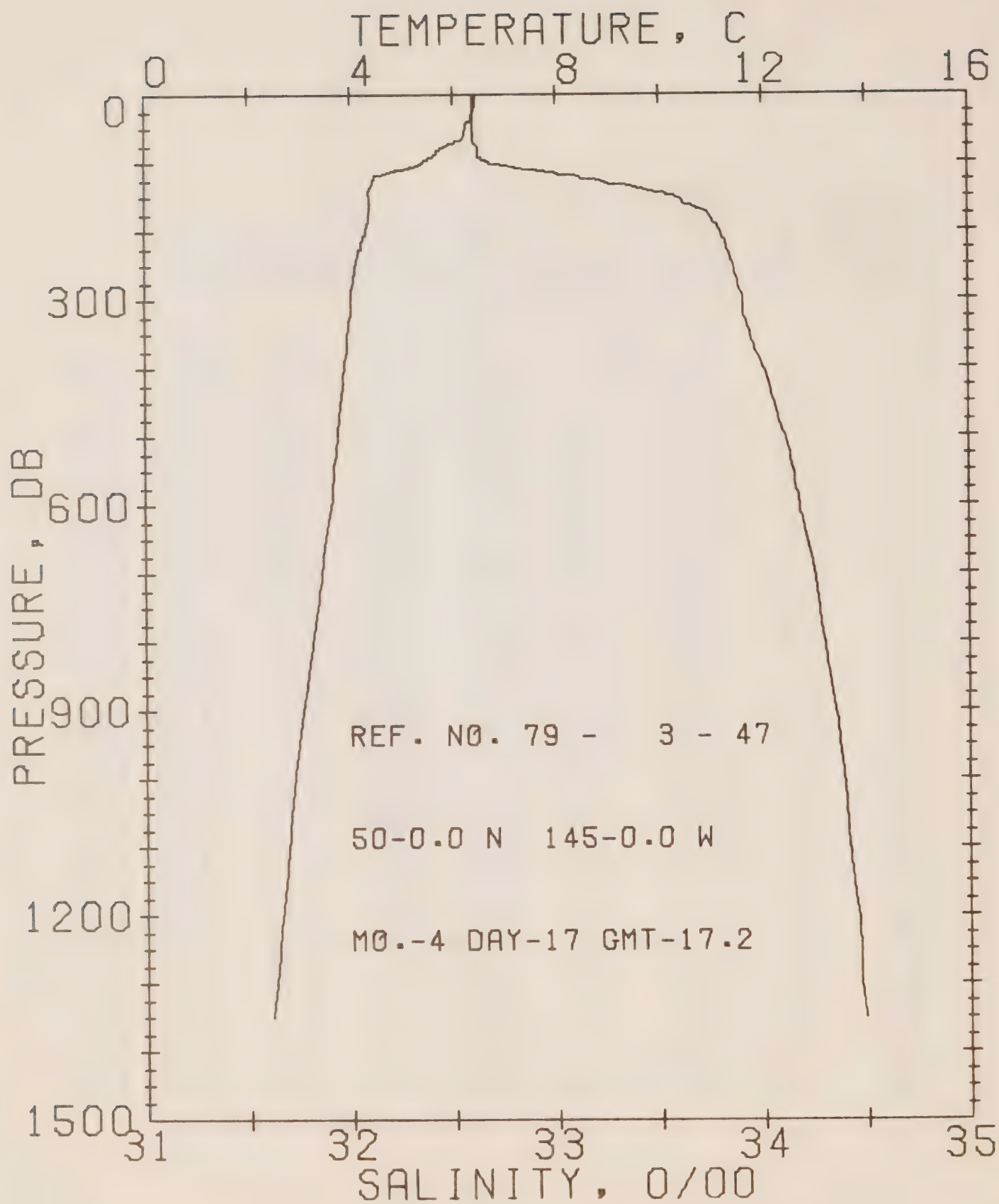
DATE 17/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 122 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.59	0	25.62	237.5	.00	.00	1474.
10	6.42	32.59	10	25.62	237.6	.24	.01	1474.
20	6.40	32.59	20	25.62	237.5	.48	.05	1474.
30	6.35	32.59	30	25.63	237.0	.71	.11	1474.
40	6.27	32.59	40	25.64	236.1	.95	.19	1474.
50	6.23	32.59	50	25.65	235.7	1.19	.30	1474.
60	6.21	32.59	60	25.65	235.6	1.42	.43	1474.
70	6.03	32.59	70	25.68	233.2	1.66	.59	1473.
80	5.74	32.62	79	25.73	228.0	1.89	.77	1472.
90	5.60	32.62	89	25.75	226.6	2.11	.96	1472.
100	5.38	32.68	99	25.82	219.7	2.34	1.18	1471.
110	4.88	32.91	109	26.06	197.1	2.55	1.41	1470.
120	4.46	33.10	119	26.25	178.7	2.74	1.63	1468.
130	4.42	33.24	129	26.37	167.7	2.91	1.85	1468.
140	4.34	33.44	139	26.54	151.6	3.07	2.07	1468.
150	4.37	33.57	149	26.64	142.3	3.22	2.28	1469.
160	4.36	33.62	159	26.68	138.9	3.36	2.50	1469.
170	4.36	33.70	169	26.74	133.1	3.49	2.73	1469.
180	4.34	33.74	179	26.78	129.6	3.62	2.97	1470.
190	4.32	33.77	189	26.80	127.3	3.75	3.21	1470.
200	4.30	33.79	199	26.82	125.5	3.88	3.46	1470.
210	4.23	33.81	209	26.84	123.7	4.00	3.72	1470.
220	4.21	33.82	218	26.85	122.9	4.13	3.99	1470.
230	4.14	33.83	228	26.87	121.3	4.25	4.27	1470.
240	4.11	33.85	238	26.88	120.0	4.37	4.56	1470.
250	4.09	33.86	248	26.89	119.0	4.49	4.86	1470.
260	4.07	33.87	258	26.90	118.0	4.61	5.16	1470.
270	4.05	33.88	268	26.91	117.3	4.72	5.48	1470.
280	4.03	33.88	278	26.92	117.0	4.84	5.81	1470.
290	4.00	33.90	288	26.93	115.4	4.96	6.15	1470.
300	3.99	33.91	298	26.94	114.5	5.07	6.49	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 47

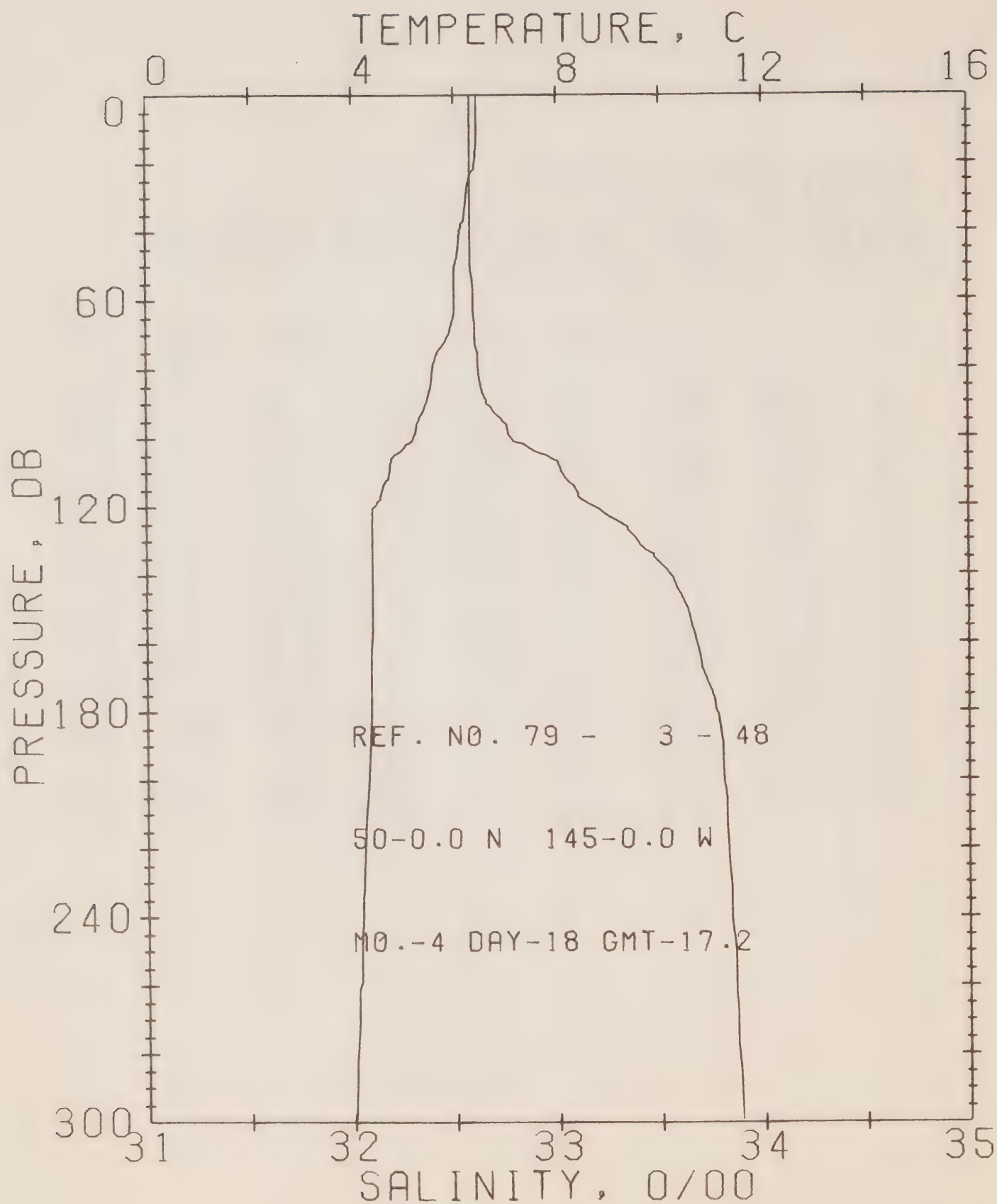
DATE 17/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 186 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.59	0	25.62	237.5	.00	.00	1474.
10	6.42	32.59	10	25.62	237.6	.24	.01	1474.
20	6.40	32.59	20	25.62	237.5	.48	.05	1474.
30	6.35	32.59	30	25.63	237.0	.71	.11	1474.
50	6.23	32.59	50	25.65	235.7	1.19	.30	1474.
75	5.84	32.61	75	25.71	229.9	1.77	.68	1472.
100	5.38	32.68	99	25.82	219.7	2.34	1.18	1471.
125	4.43	33.18	124	26.32	172.3	2.83	1.74	1468.
150	4.37	33.57	149	26.64	142.3	3.22	2.28	1469.
175	4.35	33.73	174	26.77	130.5	3.56	2.85	1469.
200	4.30	33.79	199	26.82	125.5	3.88	3.46	1470.
225	4.21	33.83	223	26.86	122.2	4.19	4.13	1470.
250	4.09	33.86	248	26.89	119.0	4.49	4.86	1470.
300	3.99	33.91	298	26.94	114.5	5.07	6.49	1470.
400	3.86	34.00	397	27.03	107.1	6.19	10.48	1471.
500	3.73	34.11	496	27.12	98.8	7.22	15.20	1473.
600	3.60	34.18	595	27.20	92.8	8.18	20.56	1474.
800	3.24	34.30	793	27.33	81.5	9.92	32.91	1476.
1000	2.88	34.39	990	27.43	71.9	11.44	46.88	1478.
1200	2.63	34.46	1188	27.51	65.5	12.82	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 48

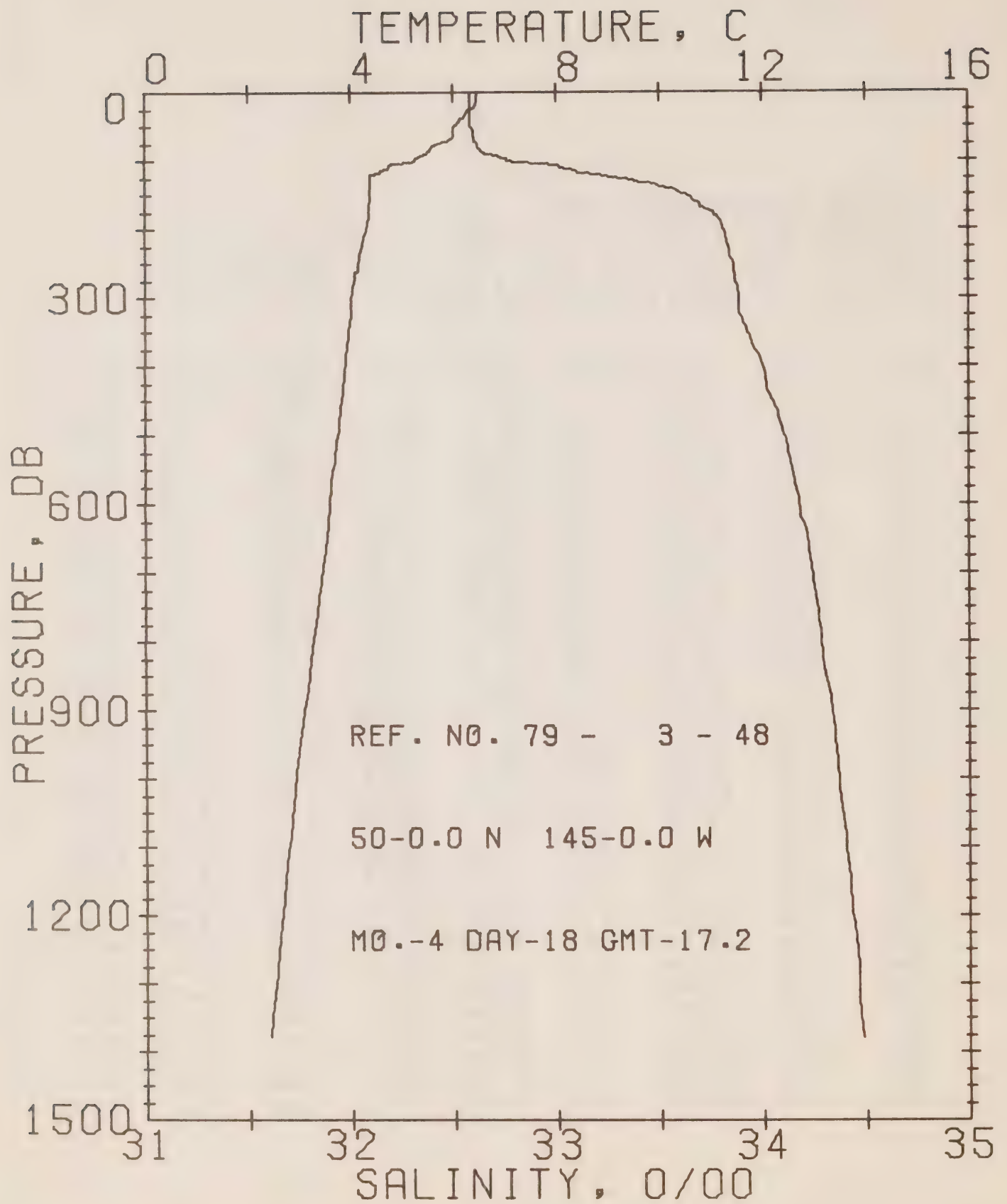
DATE 18/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 106 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.58	0	25.61	238.7	.00	.00	1474.
10	6.46	32.58	10	25.61	238.8	.24	.01	1474.
20	6.43	32.58	20	25.61	238.5	.48	.05	1474.
30	6.25	32.58	30	25.64	236.5	.71	.11	1473.
40	6.12	32.58	40	25.65	235.1	.95	.19	1473.
50	6.02	32.58	50	25.66	234.0	1.19	.30	1473.
60	5.99	32.59	60	25.68	233.0	1.42	.43	1473.
70	5.90	32.60	70	25.69	231.3	1.65	.59	1473.
80	5.56	32.61	79	25.74	226.6	1.88	.76	1471.
90	5.45	32.65	89	25.79	222.6	2.10	.96	1471.
100	5.19	32.78	99	25.92	210.4	2.32	1.16	1470.
110	4.72	33.02	109	26.16	187.2	2.52	1.37	1469.
120	4.44	33.17	119	26.31	173.1	2.70	1.59	1468.
130	4.38	33.39	129	26.49	156.0	2.86	1.79	1468.
140	4.36	33.55	139	26.62	144.3	3.01	2.00	1469.
150	4.36	33.63	149	26.68	138.0	3.15	2.21	1469.
160	4.36	33.67	159	26.72	134.7	3.29	2.42	1469.
170	4.35	33.72	169	26.76	131.4	3.42	2.65	1469.
180	4.34	33.78	179	26.80	127.3	3.55	2.88	1470.
190	4.32	33.80	189	26.82	125.2	3.68	3.12	1470.
200	4.29	33.81	199	26.83	124.3	3.80	3.36	1470.
210	4.25	33.82	208	26.85	123.1	3.92	3.62	1470.
220	4.22	33.83	218	26.86	122.2	4.05	3.89	1470.
230	4.19	33.84	228	26.87	121.3	4.17	4.17	1470.
240	4.16	33.84	238	26.87	121.0	4.29	4.46	1470.
250	4.14	33.86	248	26.89	119.4	4.41	4.76	1470.
260	4.11	33.86	258	26.89	119.1	4.53	5.07	1470.
270	4.07	33.87	268	26.90	118.1	4.65	5.39	1470.
280	4.04	33.87	278	26.91	117.5	4.77	5.72	1470.
290	4.02	33.88	288	26.92	116.8	4.88	6.06	1470.
300	4.00	33.89	298	26.93	116.1	5.00	6.41	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 48

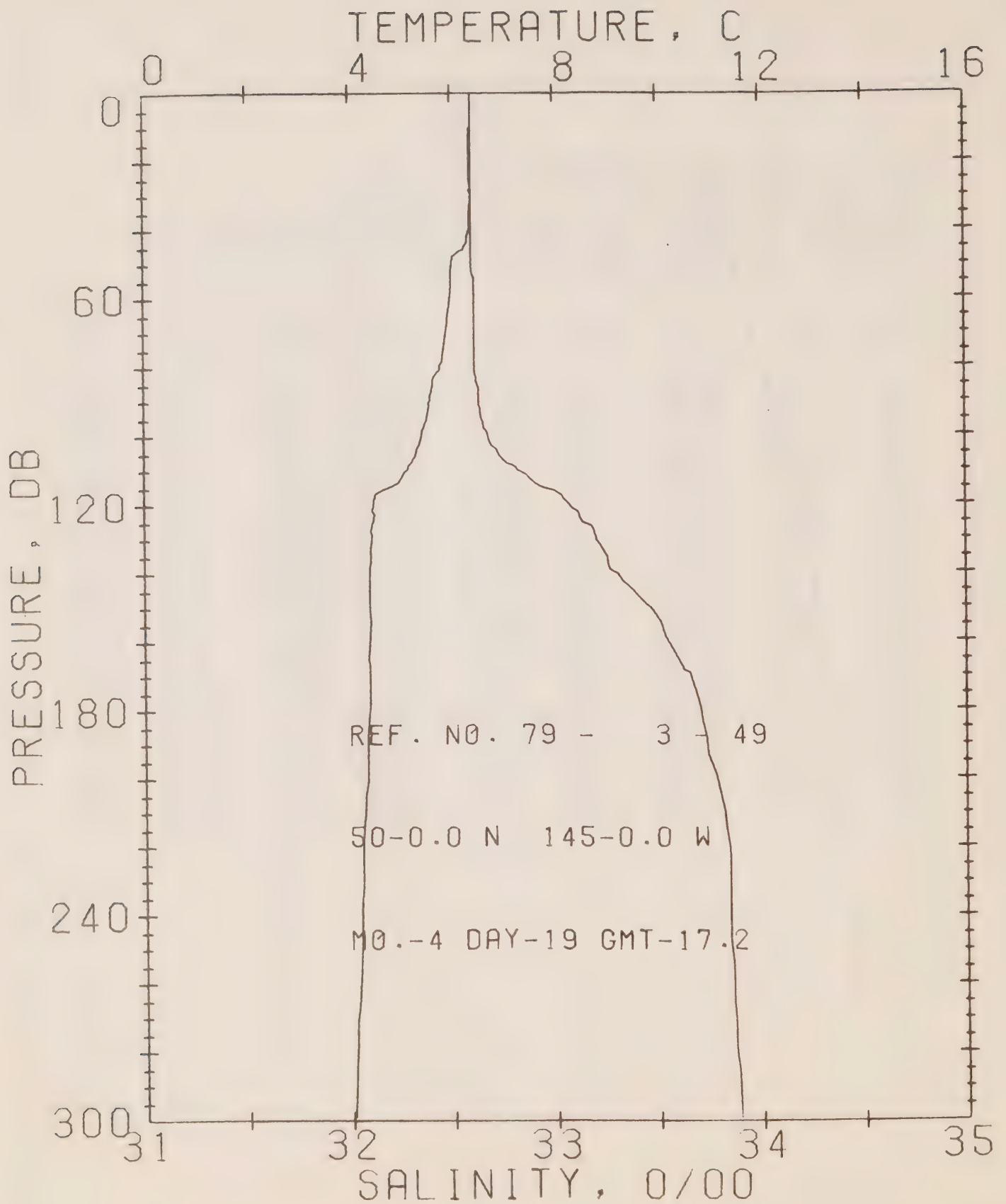
DATE 18/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.58	0	25.61	238.7	.00	.00	1474.
10	6.46	32.58	10	25.61	238.8	.24	.01	1474.
20	6.43	32.58	20	25.61	238.5	.48	.05	1474.
30	6.25	32.58	30	25.64	236.5	.71	.11	1473.
50	6.02	32.58	50	25.66	234.0	1.19	.30	1473.
75	5.65	32.61	75	25.73	227.8	1.77	.67	1472.
100	5.19	32.78	99	25.92	210.4	2.32	1.16	1470.
125	4.37	33.31	124	26.43	161.9	2.78	1.69	1468.
150	4.36	33.63	149	26.68	138.0	3.15	2.21	1469.
175	4.34	33.75	174	26.78	128.8	3.49	2.76	1469.
200	4.29	33.81	199	26.83	124.3	3.80	3.36	1470.
225	4.21	33.83	223	26.86	121.8	4.11	4.03	1470.
250	4.14	33.86	248	26.89	119.4	4.41	4.76	1470.
300	4.00	33.89	298	26.93	116.1	5.00	6.41	1470.
400	3.89	34.00	397	27.02	107.6	6.13	10.43	1472.
500	3.74	34.10	496	27.12	99.4	7.16	15.17	1473.
600	3.57	34.17	595	27.19	93.0	8.12	20.54	1474.
800	3.25	34.26	793	27.31	82.8	9.87	32.99	1476.
1000	2.90	34.37	990	27.41	73.9	11.43	47.26	1478.
1200	2.62	34.43	1188	27.49	67.2	12.84	63.04	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 49

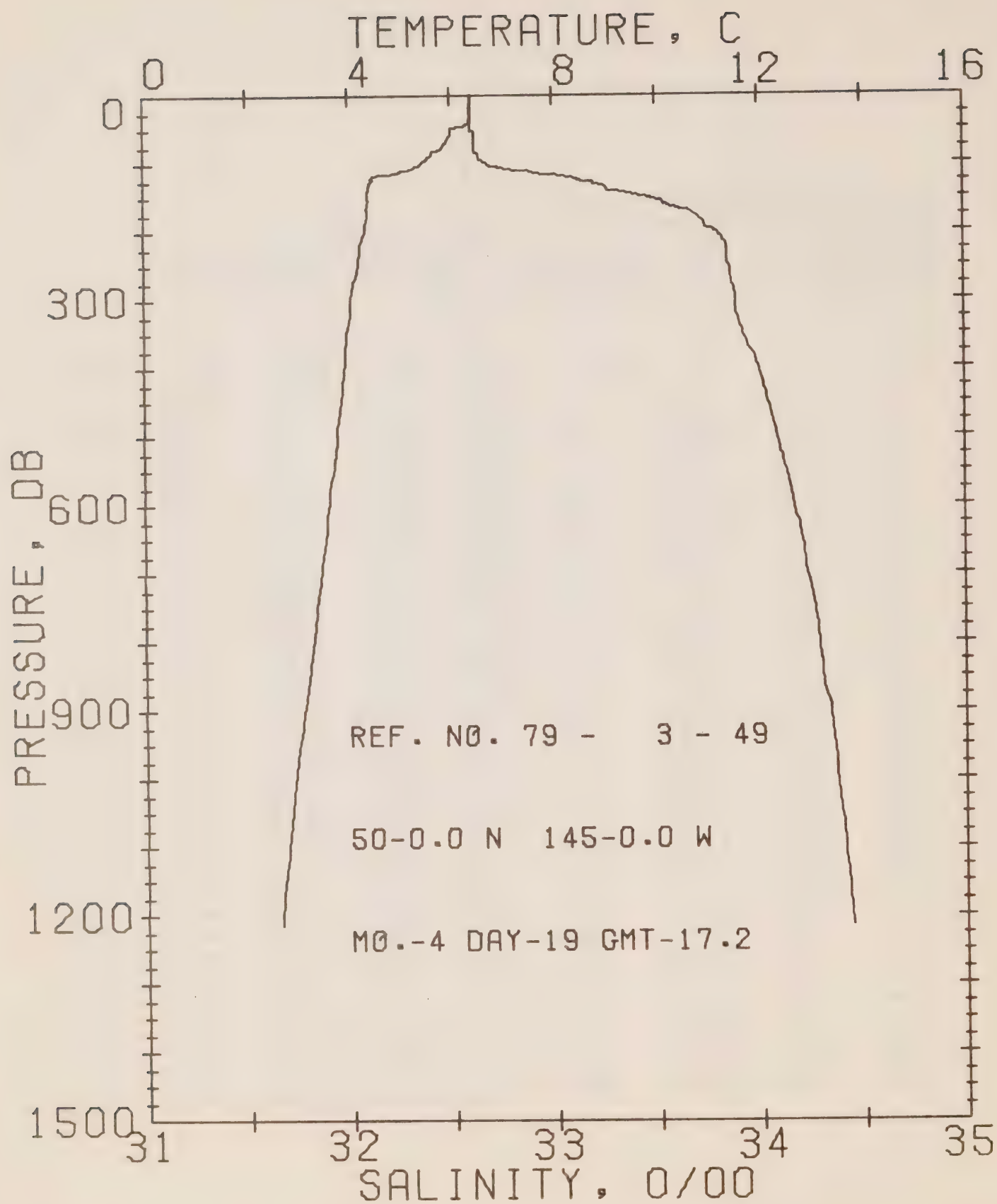
DATE 19/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 117 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.60	0	25.63	236.4	.00	.00	1473.
10	6.39	32.60	10	25.63	236.5	.24	.01	1474.
20	6.38	32.60	20	25.64	236.5	.47	.05	1474.
30	6.39	32.60	30	25.63	236.7	.71	.11	1474.
40	6.38	32.60	40	25.64	236.7	.95	.19	1474.
50	6.02	32.60	50	25.68	232.5	1.18	.30	1473.
60	5.98	32.61	60	25.69	231.4	1.41	.43	1473.
70	5.89	32.61	70	25.70	230.5	1.64	.58	1473.
80	5.77	32.61	79	25.72	229.2	1.87	.76	1472.
90	5.56	32.63	89	25.76	225.4	2.10	.96	1472.
100	5.41	32.67	99	25.81	220.4	2.32	1.17	1471.
110	5.12	32.82	109	25.96	206.5	2.54	1.40	1470.
120	4.46	33.07	119	26.23	180.8	2.73	1.63	1468.
130	4.42	33.20	129	26.34	170.7	2.91	1.85	1468.
140	4.37	33.31	139	26.43	162.0	3.07	2.08	1468.
150	4.38	33.47	149	26.55	150.2	3.23	2.31	1469.
160	4.37	33.55	159	26.62	144.2	3.38	2.54	1469.
170	4.36	33.66	169	26.70	136.3	3.52	2.78	1469.
180	4.36	33.70	179	26.74	132.7	3.65	3.02	1470.
190	4.33	33.73	189	26.77	130.3	3.78	3.27	1470.
200	4.32	33.78	199	26.81	126.5	3.91	3.52	1470.
210	4.27	33.82	209	26.85	123.2	4.04	3.78	1470.
220	4.22	33.84	218	26.87	121.2	4.16	4.05	1470.
230	4.21	33.85	228	26.87	120.7	4.28	4.33	1470.
240	4.19	33.85	238	26.88	120.6	4.40	4.62	1470.
250	4.17	33.85	248	26.88	120.2	4.52	4.92	1470.
260	4.14	33.86	258	26.89	119.5	4.64	5.23	1470.
270	4.10	33.87	268	26.90	118.6	4.76	5.55	1470.
280	4.07	33.87	278	26.91	118.0	4.88	5.88	1470.
290	4.04	33.88	288	26.92	116.9	5.00	6.22	1470.
300	4.02	33.89	298	26.92	116.3	5.11	6.57	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 49

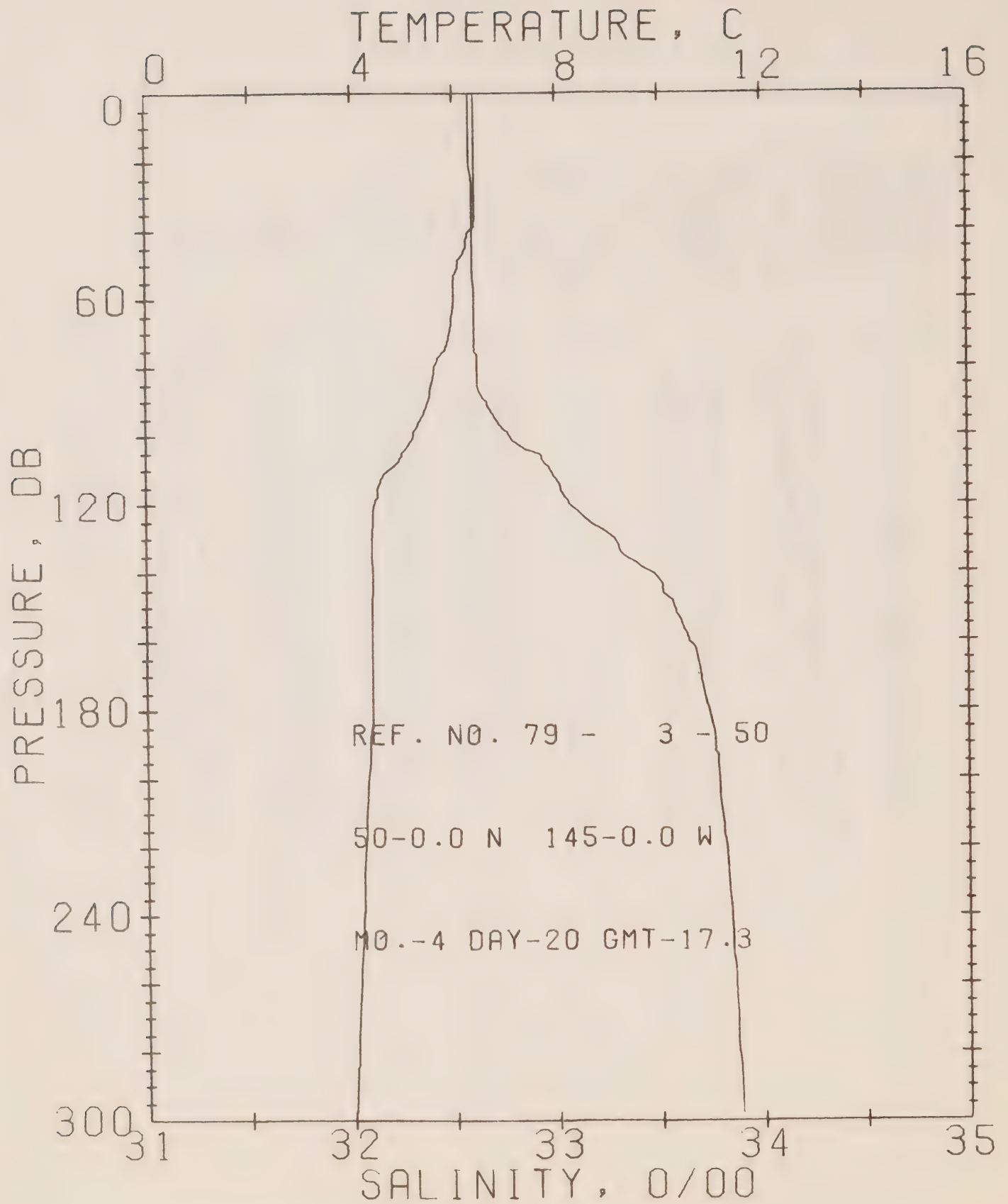
DATE 19/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.39	32.60	0	25.63	236.4	.00	.00	1473.
10	6.39	32.60	10	25.63	236.5	.24	.01	1474.
20	6.38	32.60	20	25.64	236.5	.47	.05	1474.
30	6.39	32.60	30	25.63	236.7	.71	.11	1474.
50	6.02	32.60	50	25.68	232.5	1.18	.30	1473.
75	5.85	32.61	75	25.71	230.0	1.76	.67	1473.
100	5.41	32.67	99	25.81	220.4	2.32	1.17	1471.
125	4.46	33.13	124	26.28	176.3	2.82	1.74	1468.
150	4.38	33.47	149	26.55	150.2	3.23	2.31	1469.
175	4.36	33.68	174	26.73	134.3	3.58	2.90	1469.
200	4.32	33.78	199	26.81	126.5	3.91	3.52	1470.
225	4.21	33.85	223	26.87	120.7	4.22	4.19	1470.
250	4.17	33.85	248	26.88	120.2	4.52	4.92	1470.
300	4.02	33.89	298	26.92	116.3	5.11	6.57	1470.
400	3.90	34.00	397	27.02	107.9	6.24	10.60	1472.
500	3.76	34.08	496	27.10	100.8	7.29	15.38	1473.
600	3.58	34.16	595	27.19	93.7	8.26	20.82	1474.
800	3.25	34.29	793	27.32	82.4	10.01	33.30	1476.
1000	2.88	34.37	990	27.42	73.3	11.56	47.51	1478.
1200	2.62	34.44	1188	27.49	66.9	12.96	63.14	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 50

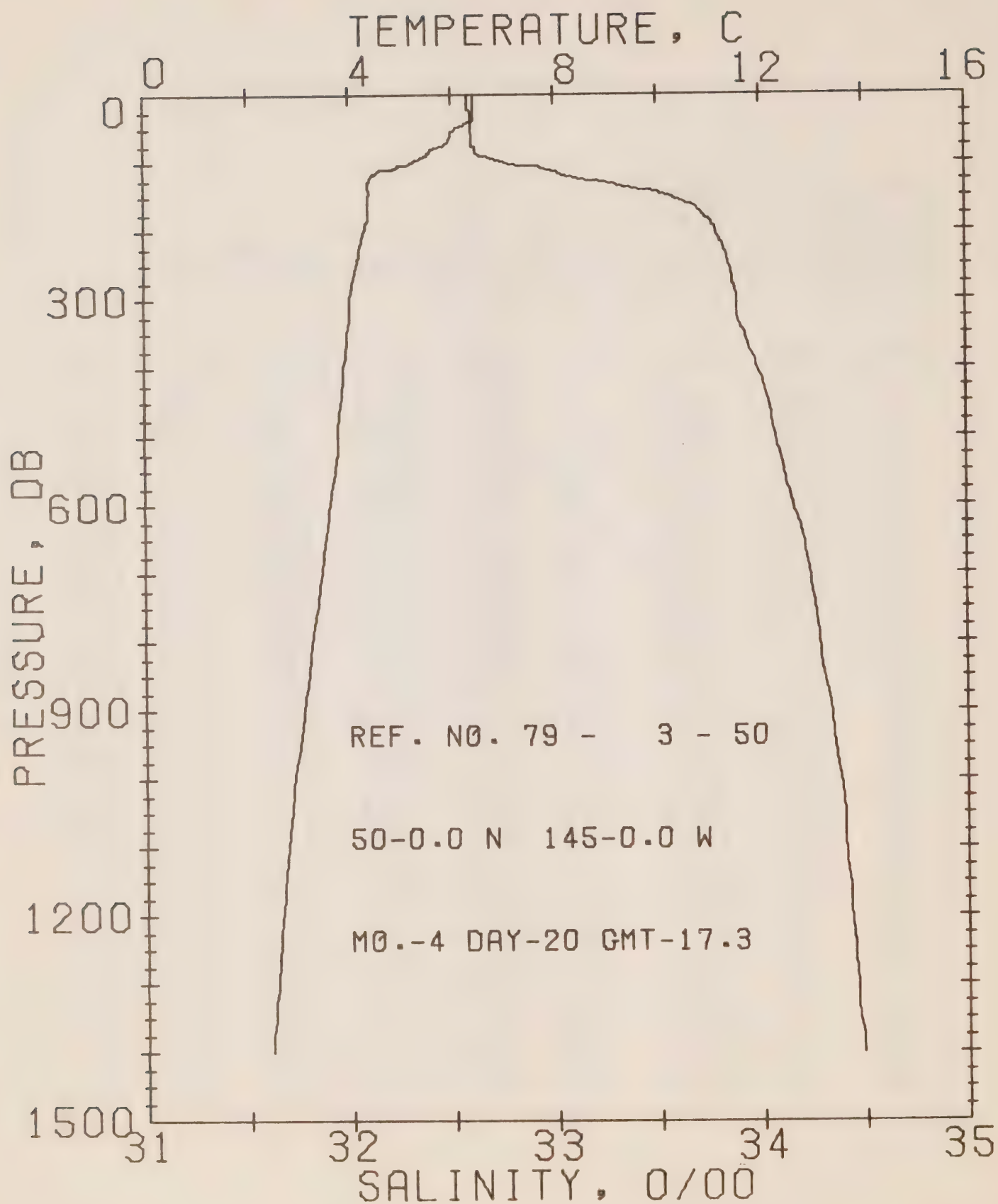
DATE 20/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 123 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.58	0	25.61	238.2	.00	.00	1474.
10	6.42	32.58	10	25.61	238.3	.24	.01	1474.
20	6.42	32.58	20	25.61	238.5	.48	.05	1474.
30	6.42	32.59	30	25.62	237.8	.71	.11	1474.
40	6.32	32.59	40	25.63	236.7	.95	.19	1474.
50	6.09	32.59	50	25.66	234.1	1.19	.30	1473.
60	6.00	32.60	60	25.68	232.3	1.42	.43	1473.
70	5.91	32.60	70	25.69	231.5	1.65	.59	1473.
80	5.60	32.61	79	25.74	227.2	1.88	.76	1472.
90	5.48	32.66	89	25.79	222.2	2.11	.96	1471.
100	5.19	32.77	99	25.91	210.8	2.33	1.17	1470.
110	4.73	32.97	109	26.12	191.0	2.53	1.38	1469.
120	4.43	33.06	119	26.22	181.2	2.71	1.60	1468.
130	4.37	33.26	129	26.41	164.2	2.89	1.82	1468.
140	4.39	33.47	139	26.55	150.3	3.04	2.04	1469.
150	4.38	33.57	149	26.63	142.7	3.19	2.26	1469.
160	4.36	33.64	159	26.69	137.4	3.33	2.48	1469.
170	4.36	33.70	169	26.74	133.0	3.47	2.70	1469.
180	4.36	33.73	179	26.77	130.5	3.60	2.94	1470.
190	4.33	33.77	189	26.80	127.6	3.73	3.18	1470.
200	4.28	33.79	199	26.82	125.9	3.85	3.43	1470.
210	4.25	33.80	209	26.83	124.8	3.98	3.70	1470.
220	4.21	33.82	218	26.85	122.9	4.10	3.97	1470.
230	4.20	33.83	228	26.86	121.9	4.23	4.25	1470.
240	4.18	33.84	238	26.87	121.2	4.35	4.54	1470.
250	4.12	33.85	248	26.88	120.0	4.47	4.84	1470.
260	4.10	33.86	258	26.89	119.1	4.59	5.15	1470.
270	4.08	33.87	268	26.90	118.2	4.71	5.47	1470.
280	4.05	33.87	278	26.91	117.6	4.82	5.80	1470.
290	4.02	33.88	288	26.92	116.7	4.94	6.14	1470.
300	4.00	33.89	298	26.93	116.1	5.06	6.49	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 50

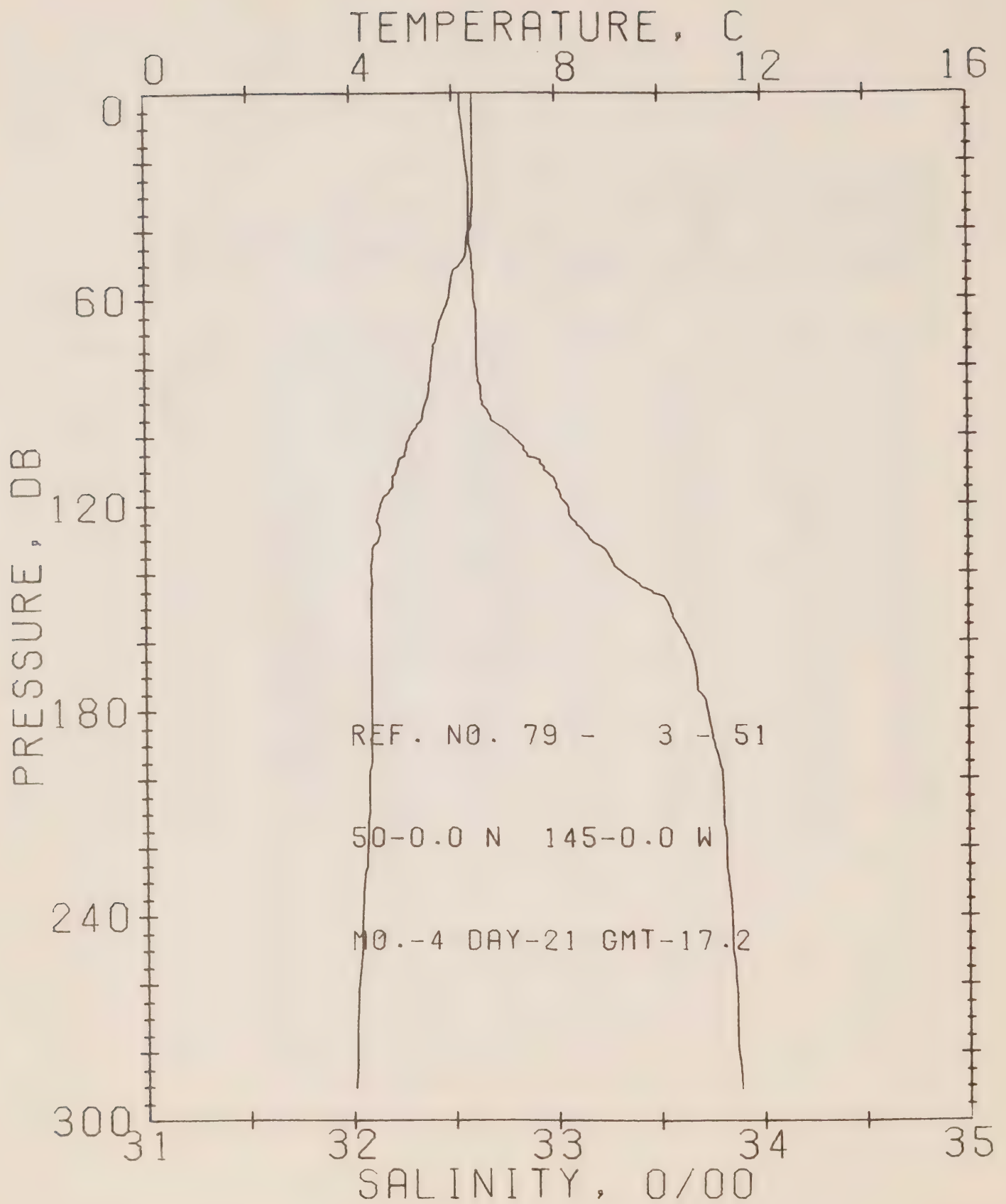
DATE 20/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 195 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.58	0	25.61	238.2	.00	.00	1474.
10	6.42	32.58	10	25.61	238.3	.24	.01	1474.
20	6.42	32.58	20	25.61	238.5	.48	.05	1474.
30	6.42	32.59	30	25.62	237.8	.71	.11	1474.
50	6.09	32.59	50	25.66	234.1	1.19	.30	1473.
75	5.82	32.60	75	25.70	230.5	1.77	.67	1472.
100	5.19	32.77	99	25.91	210.8	2.33	1.17	1470.
125	4.39	33.15	124	26.30	173.9	2.80	1.71	1468.
150	4.38	33.57	149	26.63	142.7	3.19	2.26	1469.
175	4.36	33.71	174	26.75	132.0	3.53	2.82	1469.
200	4.28	33.79	199	26.82	125.9	3.85	3.43	1470.
225	4.20	33.83	223	26.86	122.4	4.16	4.11	1470.
250	4.12	33.85	248	26.88	120.0	4.47	4.84	1470.
300	4.00	33.89	298	26.93	116.1	5.06	6.49	1470.
400	3.88	33.98	397	27.01	108.7	6.19	10.53	1472.
500	3.76	34.07	496	27.09	101.8	7.24	15.33	1473.
600	3.58	34.15	595	27.18	94.4	8.22	20.83	1474.
800	3.24	34.28	793	27.31	82.5	9.97	33.31	1476.
1000	2.88	34.38	990	27.43	72.6	11.53	47.53	1478.
1200	2.63	34.43	1188	27.49	67.3	12.92	63.16	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 51

DATE 21/ 4/79

POSITION 50- .0N, 145- .0W

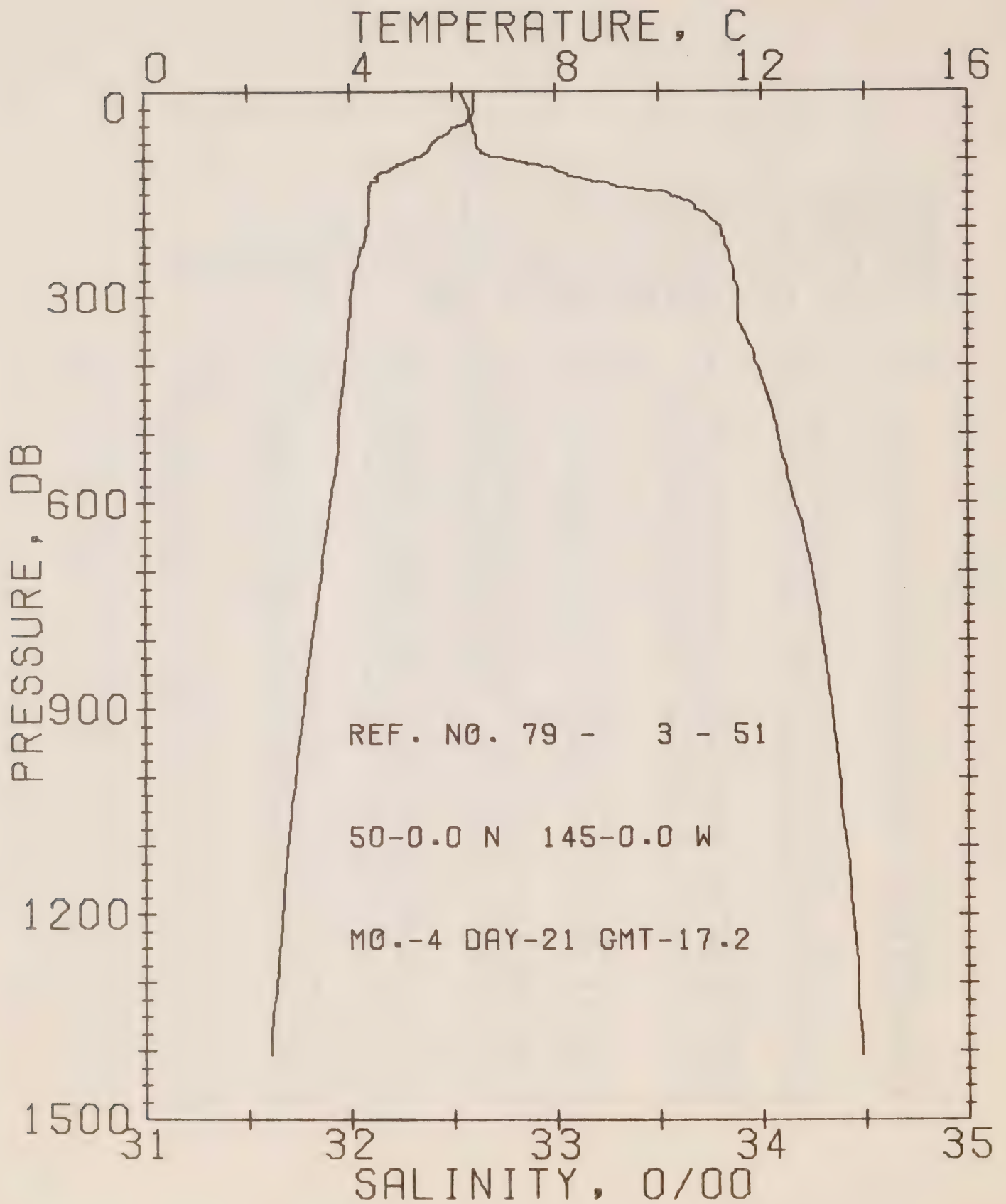
GMT 17.2

STATION P

RESULTS OF STP CAST 130 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.40	32.54	0	25.59	241.0	.00	.00	1473.
10	6.41	32.55	10	25.59	240.6	.24	.01	1474.
20	6.41	32.57	20	25.60	239.4	.48	.05	1474.
30	6.39	32.58	30	25.62	238.2	.72	.11	1474.
40	6.34	32.58	40	25.62	237.7	.96	.19	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
60	5.91	32.60	60	25.69	231.4	1.43	.43	1473.
70	5.69	32.61	70	25.73	228.2	1.66	.59	1472.
80	5.56	32.61	79	25.74	226.6	1.88	.76	1471.
90	5.47	32.64	89	25.78	223.6	2.11	.95	1471.
100	5.15	32.79	99	25.93	208.9	2.33	1.17	1470.
110	4.89	32.94	109	26.08	195.0	2.53	1.38	1470.
120	4.56	33.05	119	26.20	183.3	2.72	1.60	1469.
130	4.54	33.16	129	26.29	175.0	2.90	1.83	1469.
140	4.38	33.32	139	26.44	161.4	3.06	2.06	1468.
150	4.36	33.55	149	26.62	144.3	3.22	2.28	1469.
160	4.36	33.63	159	26.68	138.4	3.36	2.51	1469.
170	4.36	33.68	169	26.72	134.7	3.49	2.74	1469.
180	4.36	33.73	179	26.76	130.9	3.63	2.97	1470.
190	4.36	33.76	189	26.79	128.2	3.76	3.22	1470.
200	4.33	33.80	199	26.82	125.2	3.88	3.47	1470.
210	4.31	33.81	209	26.83	124.6	4.01	3.73	1470.
220	4.28	33.82	218	26.84	123.5	4.13	4.00	1470.
230	4.21	33.83	228	26.86	122.0	4.25	4.29	1470.
240	4.19	33.84	238	26.87	120.9	4.38	4.58	1470.
250	4.15	33.85	248	26.88	120.2	4.50	4.88	1470.
260	4.10	33.86	258	26.90	118.7	4.62	5.19	1470.
270	4.06	33.87	268	26.90	118.0	4.73	5.51	1470.
280	4.05	33.87	278	26.91	117.6	4.85	5.84	1470.
290	4.02	33.89	288	26.92	116.2	4.97	6.18	1470.
300	4.00	33.89	298	26.93	116.1	5.09	6.53	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 51

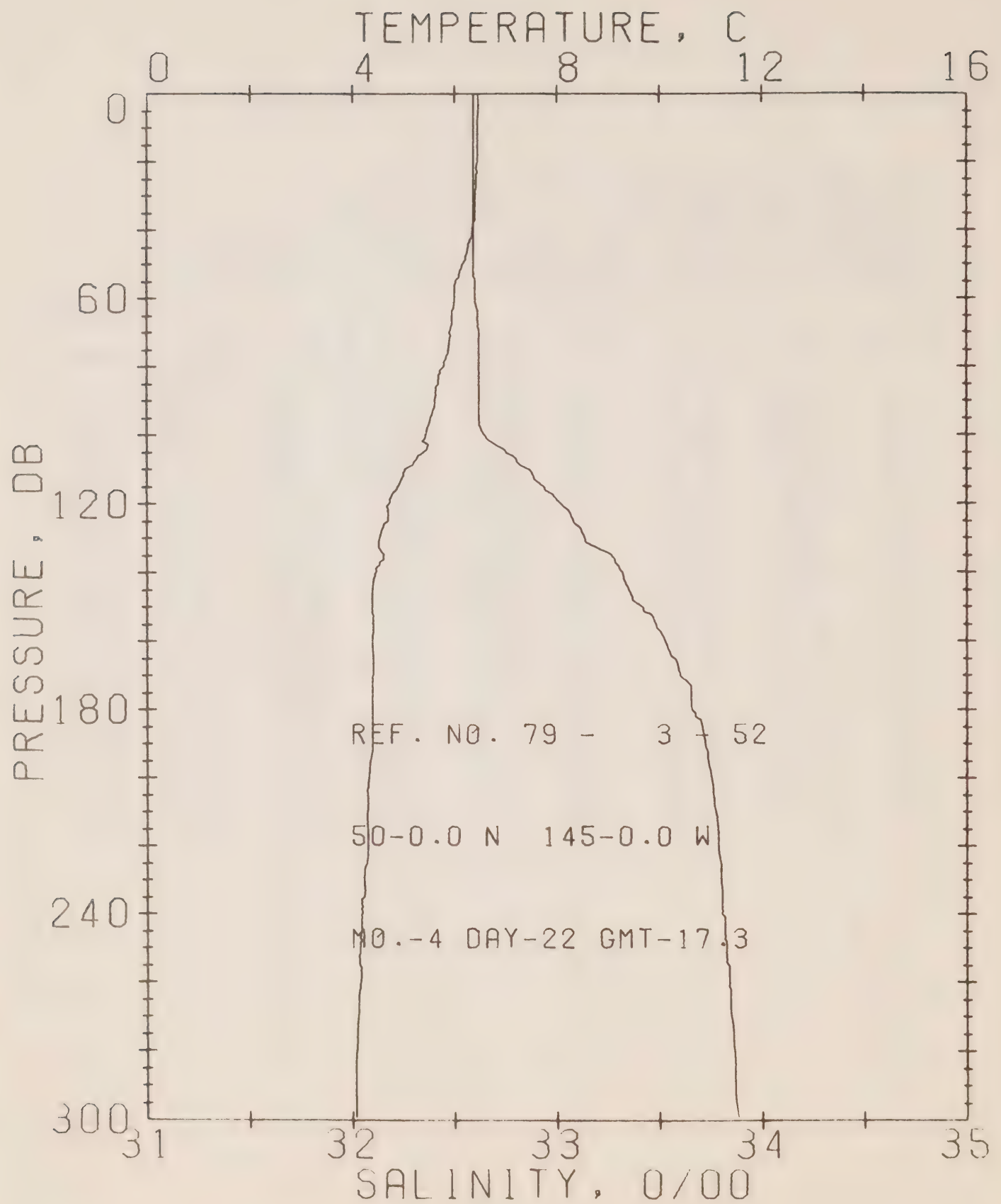
DATE 21/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.40	32.54	0	25.59	241.0	.00	.00	1473.
10	6.41	32.55	10	25.59	240.6	.24	.01	1474.
20	6.41	32.57	20	25.60	239.4	.48	.05	1474.
30	6.39	32.58	30	25.62	238.2	.72	.11	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
75	5.61	32.61	75	25.74	227.2	1.77	.67	1472.
100	5.15	32.79	99	25.93	208.9	2.33	1.17	1470.
125	4.49	33.09	124	26.24	179.6	2.81	1.72	1468.
150	4.36	33.55	149	26.62	144.3	3.22	2.28	1469.
175	4.36	33.69	174	26.73	133.4	3.56	2.86	1469.
200	4.33	33.80	199	26.82	125.2	3.88	3.47	1470.
225	4.26	33.82	223	26.84	123.4	4.19	4.14	1470.
250	4.15	33.85	248	26.88	120.2	4.50	4.88	1470.
300	4.00	33.89	298	26.93	116.1	5.09	6.53	1470.
400	3.90	33.98	397	27.01	109.1	6.22	10.58	1472.
500	3.76	34.07	496	27.10	101.4	7.27	15.38	1473.
600	3.59	34.15	595	27.18	94.5	8.25	20.88	1474.
800	3.23	34.29	793	27.32	81.8	10.00	33.30	1476.
1000	2.91	34.38	990	27.42	73.4	11.55	47.47	1478.
1200	2.65	34.44	1188	27.49	67.2	12.95	63.17	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 52

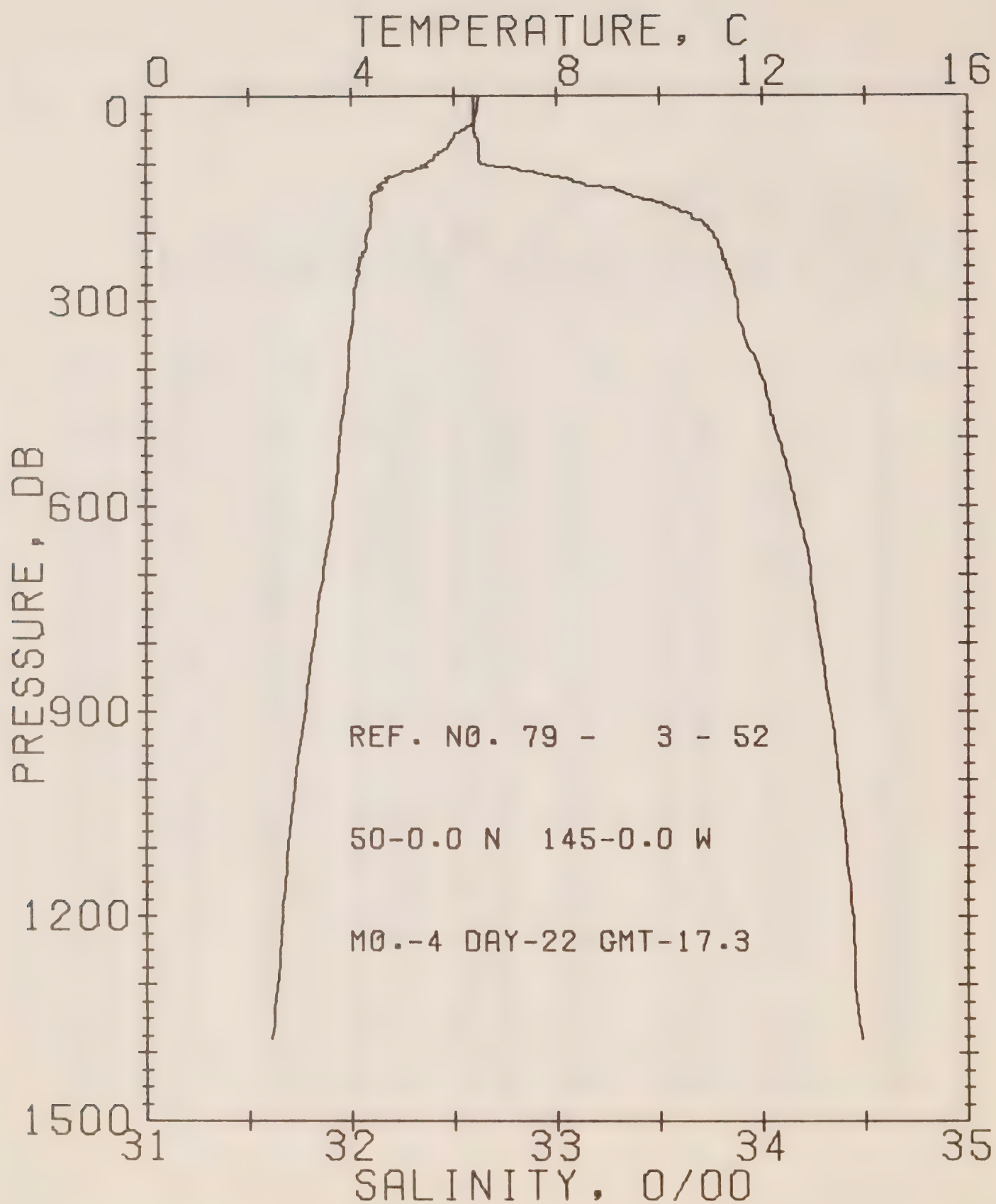
DATE 22/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 173 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.59	0	25.62	238.0	.00	.00	1474.
10	6.46	32.59	10	25.62	238.1	.24	.01	1474.
20	6.46	32.59	20	25.62	238.2	.48	.05	1474.
30	6.39	32.59	30	25.63	237.5	.71	.11	1474.
40	6.35	32.59	40	25.63	237.1	.95	.19	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
60	5.99	32.60	60	25.68	232.3	1.42	.43	1473.
70	5.90	32.62	70	25.71	229.8	1.65	.59	1473.
80	5.78	32.62	79	25.73	228.6	1.88	.76	1472.
90	5.61	32.62	89	25.75	226.7	2.11	.96	1472.
100	5.42	32.64	99	25.79	222.8	2.33	1.18	1471.
110	5.02	32.87	109	26.01	201.6	2.55	1.41	1470.
120	4.71	33.02	119	26.16	187.2	2.74	1.63	1469.
130	4.52	33.13	129	26.27	176.6	2.93	1.87	1469.
140	4.45	33.32	139	26.43	162.1	3.09	2.10	1469.
150	4.37	33.42	149	26.52	153.9	3.25	2.33	1469.
160	4.38	33.53	159	26.60	146.2	3.40	2.57	1469.
170	4.39	33.60	169	26.66	140.8	3.55	2.81	1469.
180	4.37	33.66	179	26.71	136.2	3.68	3.05	1470.
190	4.37	33.72	189	26.75	131.8	3.82	3.31	1470.
200	4.30	33.75	199	26.79	128.7	3.95	3.56	1470.
210	4.29	33.78	209	26.81	126.8	4.07	3.83	1470.
220	4.29	33.79	218	26.82	125.9	4.20	4.11	1470.
230	4.22	33.80	228	26.83	124.5	4.33	4.39	1470.
240	4.18	33.81	238	26.84	123.5	4.45	4.69	1470.
250	4.13	33.83	248	26.87	121.5	4.57	5.00	1470.
260	4.13	33.84	258	26.87	120.9	4.69	5.31	1470.
270	4.11	33.85	268	26.89	119.8	4.81	5.64	1470.
280	4.06	33.86	278	26.90	118.4	4.93	5.97	1470.
290	4.05	33.87	288	26.91	118.0	5.05	6.31	1470.
300	4.04	33.88	298	26.91	117.3	5.17	6.67	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 52

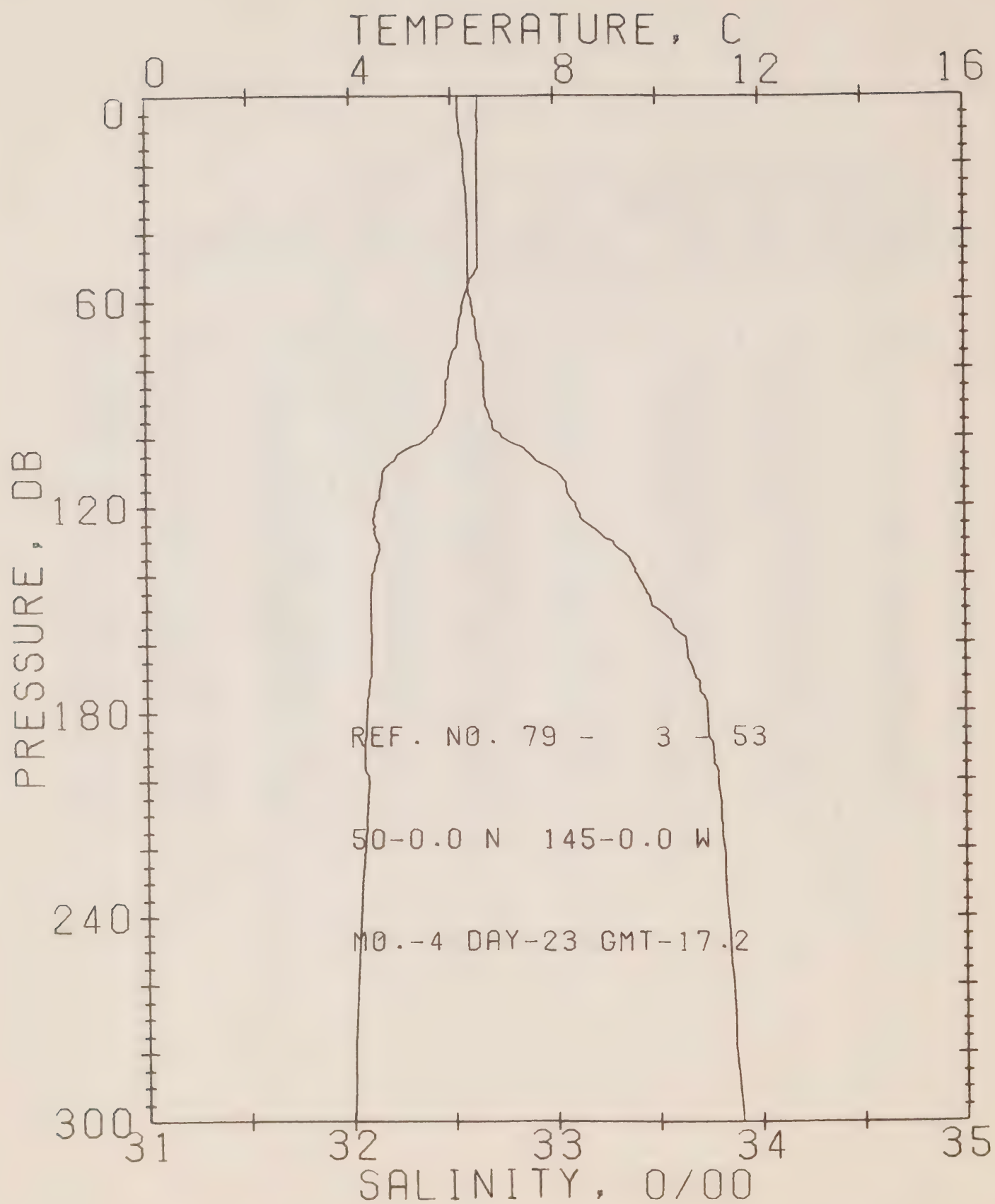
DATE 22/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.3 STATION P

RESULTS OF STP CAST 252 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.59	0	25.62	238.0	.00	.00	1474.
10	6.46	32.59	10	25.62	238.1	.24	.01	1474.
20	6.46	32.59	20	25.62	238.2	.48	.05	1474.
30	6.39	32.59	30	25.63	237.5	.71	.11	1474.
50	6.16	32.59	50	25.65	234.9	1.19	.30	1473.
75	5.89	32.62	75	25.71	229.7	1.77	.67	1473.
100	5.42	32.64	99	25.79	222.8	2.33	1.18	1471.
125	4.70	33.08	124	26.21	182.6	2.84	1.75	1469.
150	4.37	33.42	149	26.52	153.9	3.25	2.33	1469.
175	4.37	33.65	174	26.70	136.9	3.61	2.93	1469.
200	4.30	33.75	199	26.79	128.7	3.95	3.56	1470.
225	4.28	33.80	223	26.83	125.1	4.26	4.25	1470.
250	4.13	33.83	248	26.87	121.5	4.57	5.00	1470.
300	4.04	33.88	298	26.91	117.3	5.17	6.67	1470.
400	3.94	33.98	397	27.01	109.3	6.31	10.74	1472.
500	3.77	34.07	496	27.10	101.5	7.37	15.57	1473.
600	3.62	34.16	595	27.18	94.3	8.34	21.05	1474.
800	3.24	34.28	793	27.31	82.8	10.11	33.59	1476.
1000	2.89	34.37	990	27.41	73.7	11.66	47.85	1478.
1200	2.63	34.44	1188	27.49	67.0	13.07	63.55	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 53

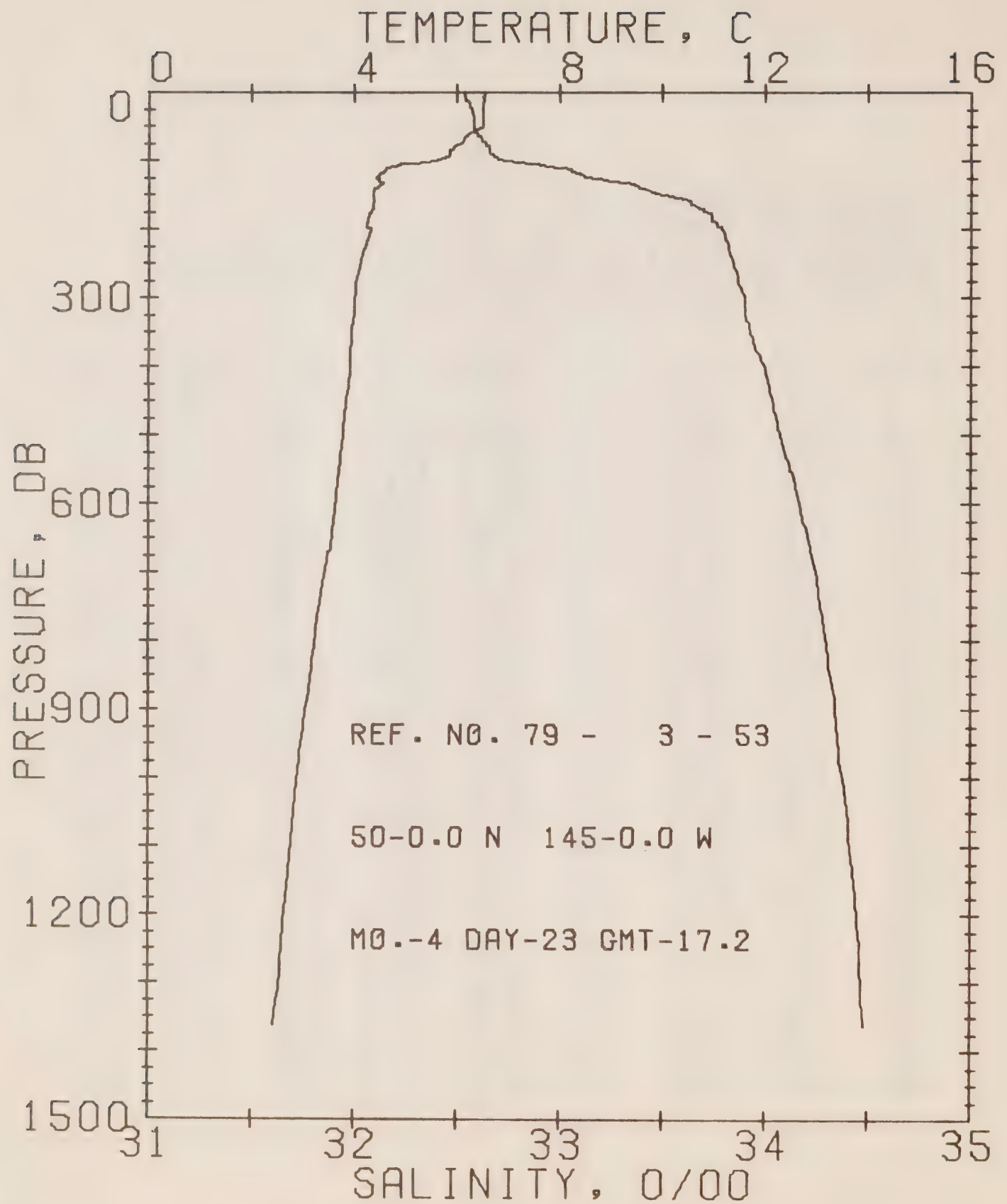
DATE 23/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.54	32.53	0	25.56	243.4	.00	.00	1474.
10	6.53	32.54	10	25.57	242.7	.24	.01	1474.
20	6.51	32.56	20	25.59	241.1	.48	.05	1474.
30	6.51	32.57	30	25.60	240.4	.73	.11	1474.
40	6.51	32.58	40	25.60	239.8	.97	.20	1475.
50	6.50	32.58	50	25.60	239.9	1.21	.31	1475.
60	6.23	32.59	60	25.65	235.8	1.44	.44	1474.
70	6.12	32.62	70	25.68	232.5	1.68	.59	1474.
80	5.93	32.65	79	25.73	228.1	1.91	.77	1473.
90	5.87	32.66	89	25.75	226.7	2.14	.97	1473.
100	5.53	32.74	99	25.85	216.9	2.36	1.18	1472.
110	4.62	33.01	109	26.16	186.9	2.56	1.40	1469.
120	4.48	33.10	119	26.25	178.8	2.74	1.61	1468.
130	4.51	33.28	129	26.39	165.7	2.92	1.83	1469.
140	4.41	33.40	139	26.50	155.7	3.08	2.05	1469.
150	4.36	33.50	149	26.58	147.8	3.23	2.28	1469.
160	4.38	33.63	159	26.68	138.0	3.37	2.50	1469.
170	4.36	33.68	169	26.72	134.5	3.51	2.73	1469.
180	4.28	33.73	179	26.77	129.8	3.64	2.97	1469.
190	4.24	33.76	189	26.80	127.2	3.77	3.21	1469.
200	4.32	33.79	199	26.81	126.1	3.89	3.46	1470.
210	4.29	33.80	209	26.83	125.1	4.02	3.72	1470.
220	4.23	33.82	218	26.85	123.3	4.14	4.00	1470.
230	4.19	33.82	228	26.85	122.5	4.27	4.28	1470.
240	4.16	33.84	238	26.87	121.3	4.39	4.57	1470.
250	4.12	33.85	248	26.88	120.2	4.51	4.87	1470.
260	4.09	33.86	258	26.89	119.1	4.63	5.18	1470.
270	4.06	33.87	268	26.90	118.0	4.75	5.50	1470.
280	4.03	33.87	278	26.91	117.5	4.86	5.83	1470.
290	4.02	33.89	288	26.92	116.2	4.98	6.17	1470.
300	3.99	33.90	298	26.94	115.3	5.10	6.52	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 53

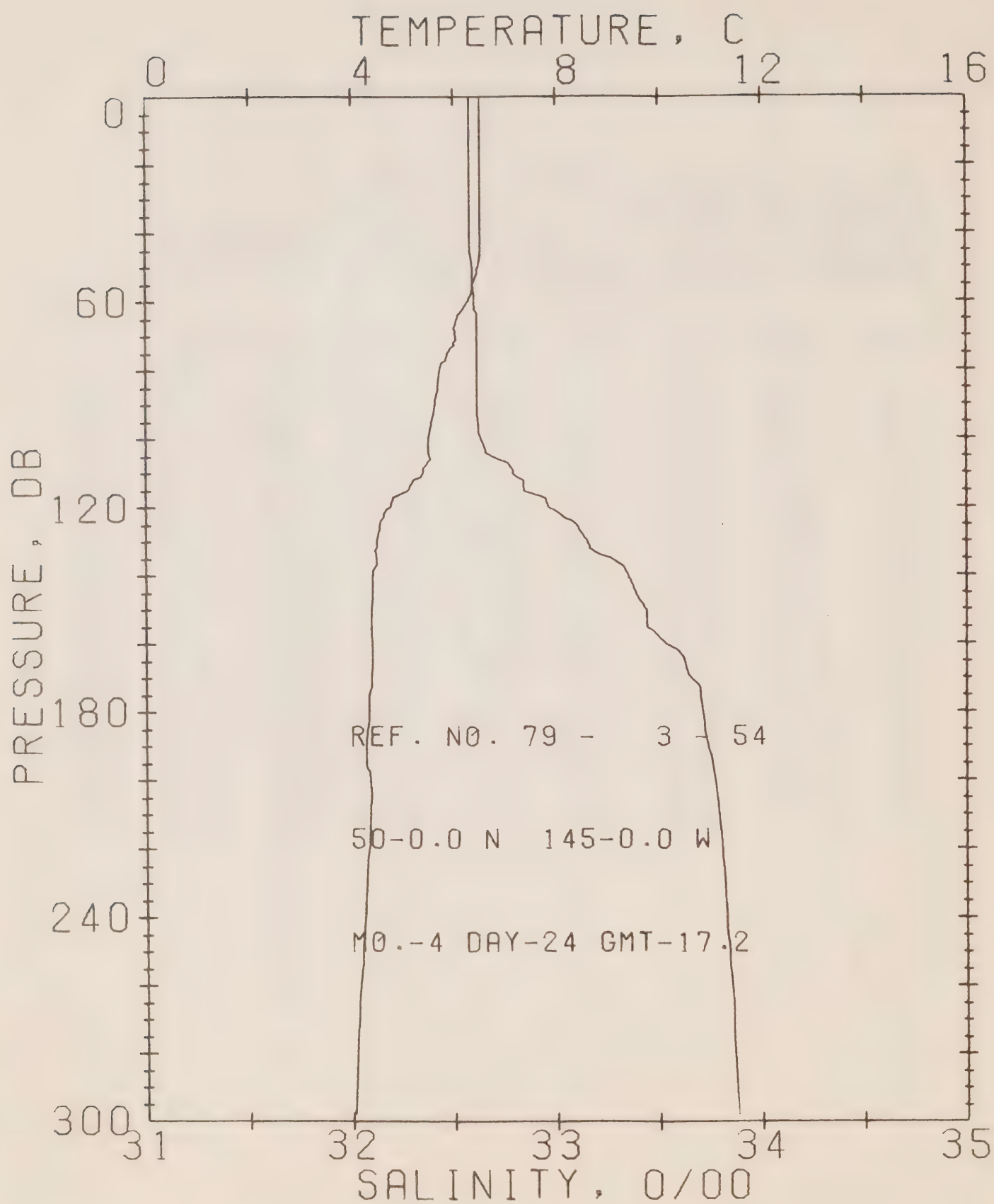
DATE 23/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 205 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.54	32.53	0	25.56	243.4	.00	.00	1474.
10	6.53	32.54	10	25.57	242.7	.24	.01	1474.
20	6.51	32.56	20	25.59	241.1	.48	.05	1474.
30	6.51	32.57	30	25.60	240.4	.73	.11	1474.
50	6.50	32.58	50	25.60	239.9	1.21	.31	1475.
75	6.01	32.64	75	25.71	229.7	1.79	.68	1473.
100	5.53	32.74	99	25.85	216.9	2.36	1.18	1472.
125	4.44	33.16	124	26.30	173.9	2.83	1.72	1468.
150	4.36	33.50	149	26.58	147.8	3.23	2.28	1469.
175	4.31	33.72	174	26.76	131.0	3.57	2.85	1469.
200	4.32	33.79	199	26.81	126.1	3.89	3.46	1470.
225	4.21	33.82	223	26.85	122.9	4.20	4.14	1470.
250	4.12	33.85	248	26.88	120.2	4.51	4.87	1470.
300	3.99	33.90	298	26.94	115.3	5.10	6.52	1470.
400	3.91	34.00	397	27.02	108.1	6.23	10.54	1472.
500	3.78	34.07	496	27.09	101.9	7.28	15.36	1473.
600	3.63	34.16	595	27.18	94.3	8.26	20.84	1474.
800	3.23	34.30	793	27.33	81.3	10.00	33.24	1476.
1000	2.89	34.38	990	27.42	73.0	11.54	47.35	1478.
1200	2.63	34.45	1188	27.50	66.2	12.93	62.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 54

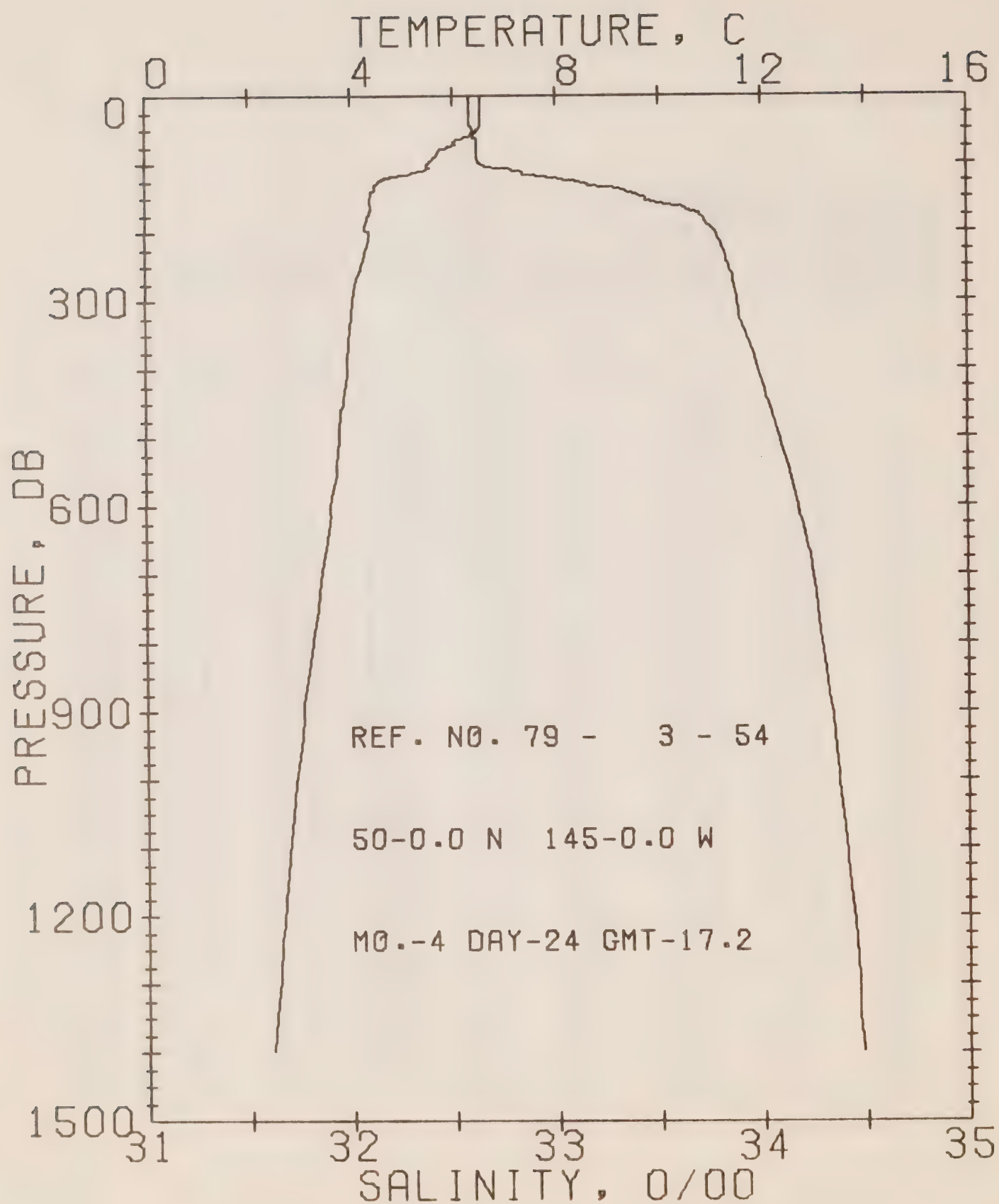
DATE 24/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 103 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.53	32.58	0	25.60	239.6	.00	.00	1474.
10	6.53	32.58	10	25.60	239.7	.24	.01	1474.
20	6.53	32.58	20	25.60	239.8	.48	.05	1474.
30	6.53	32.58	30	25.60	239.9	.72	.11	1474.
40	6.53	32.58	40	25.60	240.0	.96	.20	1475.
50	6.47	32.59	50	25.62	238.7	1.20	.31	1475.
60	6.27	32.60	60	25.65	235.6	1.44	.44	1474.
70	6.03	32.61	70	25.69	232.1	1.67	.59	1473.
80	5.73	32.61	79	25.72	228.7	1.90	.77	1472.
90	5.64	32.61	89	25.73	227.8	2.13	.97	1472.
100	5.49	32.63	99	25.77	224.7	2.35	1.19	1471.
110	5.38	32.79	109	25.91	211.6	2.57	1.42	1471.
120	4.75	32.96	119	26.11	192.1	2.78	1.66	1469.
130	4.49	33.15	129	26.29	175.2	2.96	1.89	1469.
140	4.41	33.35	139	26.45	159.6	3.12	2.12	1469.
150	4.37	33.44	149	26.53	152.4	3.28	2.35	1469.
160	4.39	33.53	159	26.60	145.9	3.43	2.59	1469.
170	4.38	33.65	169	26.70	136.9	3.57	2.82	1469.
180	4.32	33.71	179	26.75	131.7	3.70	3.06	1469.
190	4.26	33.73	189	26.78	129.5	3.83	3.31	1469.
200	4.35	33.77	199	26.80	127.7	3.96	3.56	1470.
210	4.33	33.79	209	26.82	126.1	4.09	3.83	1470.
220	4.31	33.81	218	26.83	124.7	4.22	4.10	1470.
230	4.26	33.82	228	26.84	123.5	4.34	4.39	1470.
240	4.24	33.83	238	26.85	122.6	4.46	4.68	1470.
250	4.19	33.84	248	26.87	121.4	4.58	4.98	1470.
260	4.13	33.85	258	26.88	119.9	4.71	5.30	1470.
270	4.10	33.86	268	26.89	119.2	4.82	5.62	1470.
280	4.06	33.87	278	26.90	118.4	4.94	5.95	1470.
290	4.04	33.87	288	26.91	117.6	5.06	6.30	1470.
300	4.02	33.88	298	26.92	117.0	5.18	6.65	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 54

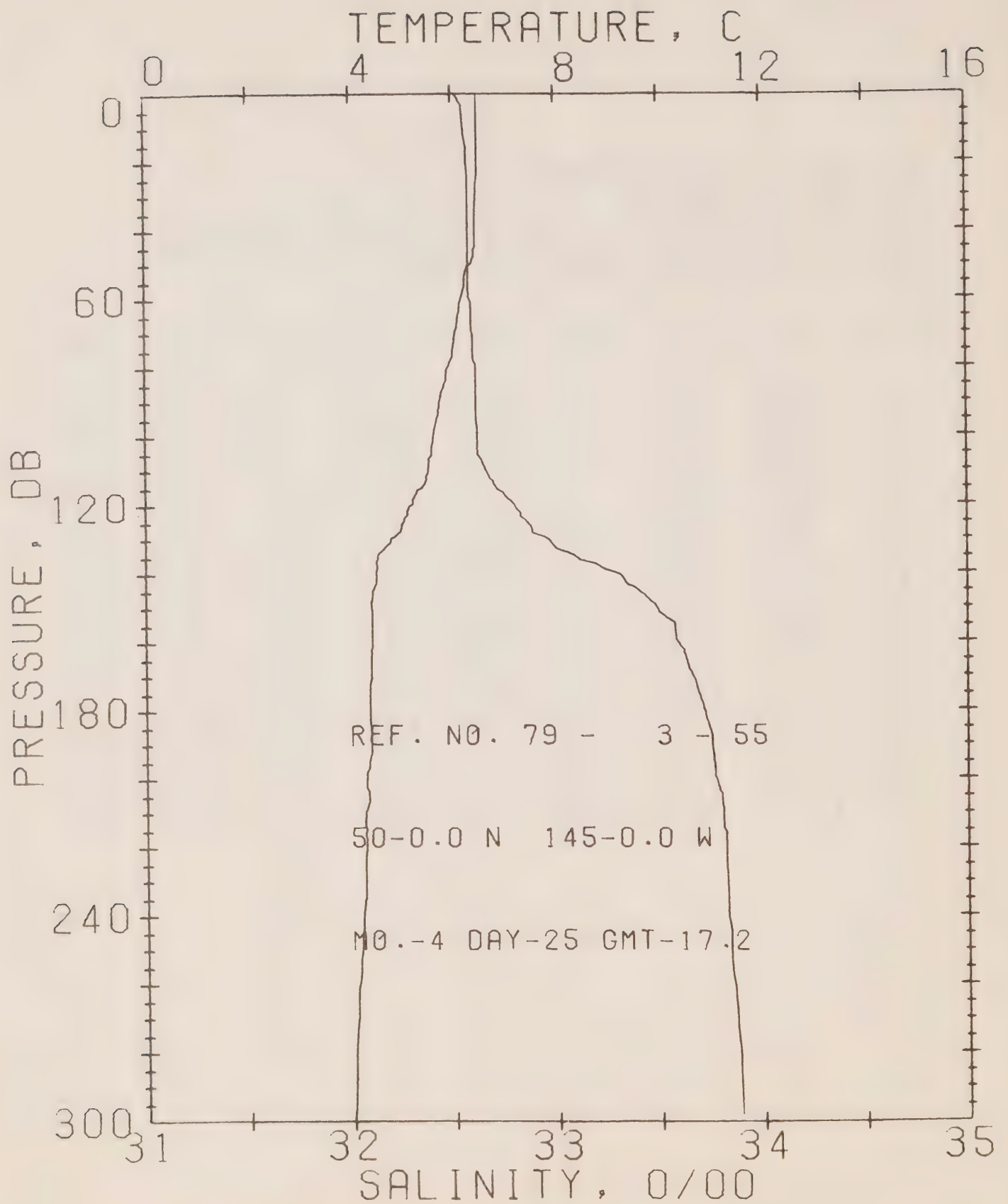
DATE 24/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.53	32.58	0	25.60	239.6	.00	.00	1474.
10	6.53	32.58	10	25.60	239.7	.24	.01	1474.
20	6.53	32.58	20	25.60	239.8	.48	.05	1474.
30	6.53	32.58	30	25.60	239.9	.72	.11	1474.
50	6.47	32.59	50	25.62	238.7	1.20	.31	1475.
75	5.88	32.61	75	25.71	230.4	1.79	.68	1473.
100	5.49	32.63	99	25.77	224.7	2.35	1.19	1471.
125	4.54	33.10	124	26.24	179.4	2.87	1.77	1469.
150	4.37	33.44	149	26.53	152.4	3.28	2.35	1469.
175	4.33	33.70	174	26.74	132.7	3.64	2.94	1469.
200	4.35	33.77	199	26.80	127.7	3.96	3.56	1470.
225	4.29	33.81	223	26.84	124.2	4.28	4.24	1470.
250	4.19	33.84	248	26.87	121.4	4.58	4.98	1470.
300	4.02	33.88	298	26.92	117.0	5.18	6.65	1470.
400	3.92	33.98	397	27.01	109.1	6.31	10.69	1472.
500	3.75	34.08	496	27.11	100.7	7.36	15.50	1473.
600	3.58	34.17	595	27.19	93.3	8.33	20.93	1474.
800	3.21	34.29	793	27.32	81.7	10.07	33.31	1476.
1000	2.90	34.37	990	27.41	73.7	11.62	47.46	1478.
1200	2.65	34.44	1188	27.49	67.2	13.03	63.20	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 55

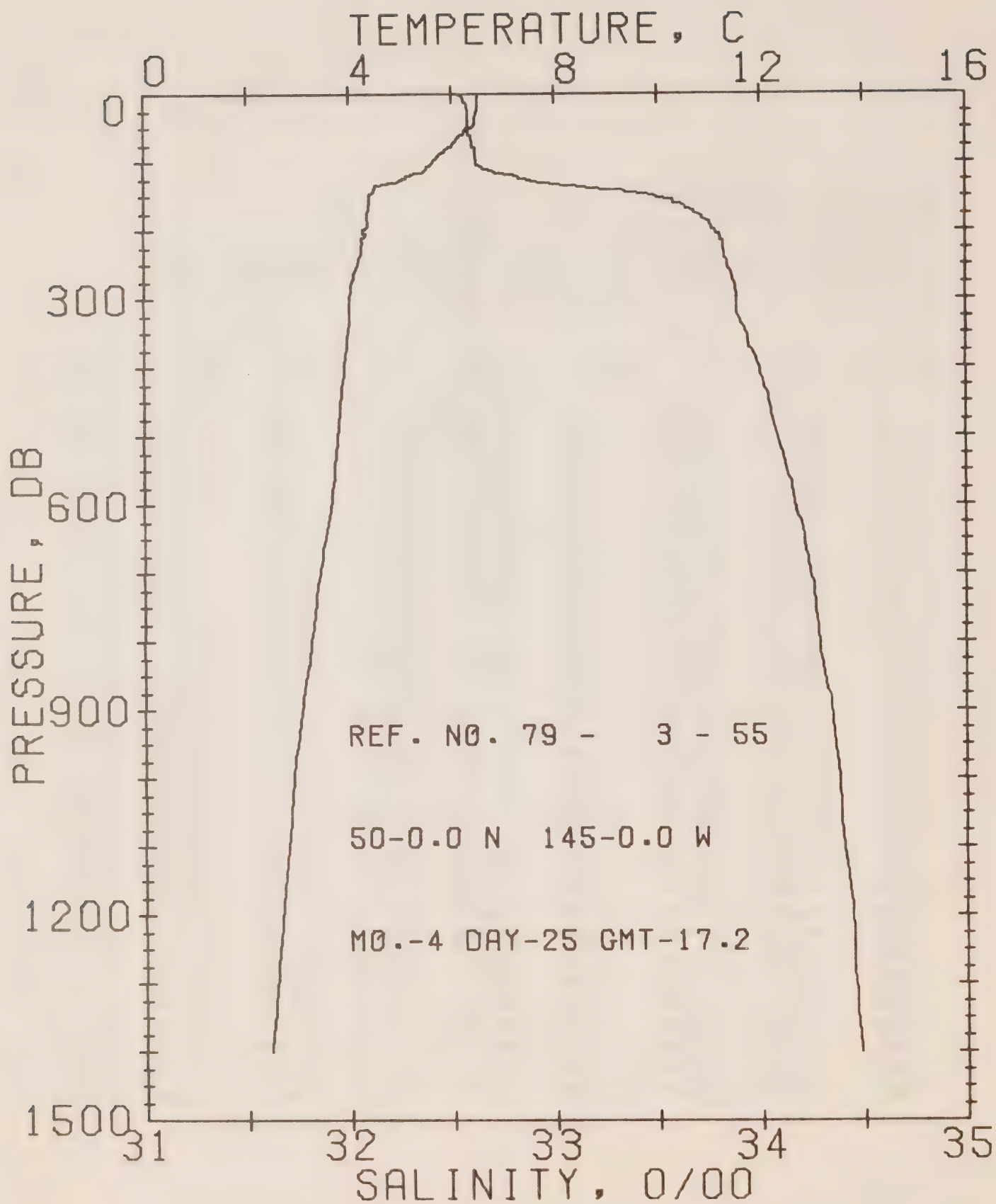
DATE 25/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.51	32.52	0	25.56	243.8	.00	.00	1474.
10	6.51	32.56	10	25.59	241.0	.24	.01	1474.
20	6.51	32.57	20	25.60	240.3	.48	.05	1474.
30	6.47	32.58	30	25.61	239.2	.72	.11	1474.
40	6.46	32.58	40	25.61	239.2	.96	.20	1474.
50	6.37	32.58	50	25.62	238.2	1.20	.31	1474.
60	6.18	32.59	60	25.65	235.6	1.44	.44	1474.
70	6.05	32.60	70	25.68	233.1	1.67	.59	1473.
80	5.92	32.61	79	25.70	230.9	1.90	.77	1473.
90	5.74	32.61	89	25.72	229.0	2.13	.97	1472.
100	5.62	32.62	99	25.74	226.9	2.36	1.19	1472.
110	5.50	32.66	109	25.79	222.7	2.59	1.43	1472.
120	5.19	32.80	119	25.94	208.8	2.80	1.69	1471.
130	4.77	32.97	129	26.12	191.6	3.01	1.94	1469.
140	4.48	33.31	139	26.42	163.2	3.19	2.19	1469.
150	4.38	33.49	149	26.57	148.7	3.34	2.42	1469.
160	4.40	33.59	159	26.65	141.5	3.49	2.65	1469.
170	4.37	33.66	169	26.71	135.8	3.62	2.88	1469.
180	4.35	33.72	179	26.76	131.5	3.76	3.12	1470.
190	4.36	33.75	189	26.78	129.4	3.89	3.36	1470.
200	4.28	33.78	199	26.81	126.8	4.02	3.62	1470.
210	4.24	33.81	209	26.84	123.8	4.14	3.88	1470.
220	4.26	33.82	218	26.84	123.4	4.26	4.15	1470.
230	4.24	33.83	228	26.85	122.8	4.39	4.43	1470.
240	4.18	33.83	238	26.86	122.0	4.51	4.73	1470.
250	4.15	33.84	248	26.87	121.0	4.63	5.03	1470.
260	4.10	33.86	258	26.89	119.4	4.75	5.34	1470.
270	4.09	33.87	268	26.90	118.3	4.87	5.66	1470.
280	4.03	33.88	278	26.92	117.0	4.99	5.99	1470.
290	4.01	33.88	288	26.92	116.6	5.10	6.33	1470.
300	4.00	33.89	298	26.93	116.1	5.22	6.68	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 55

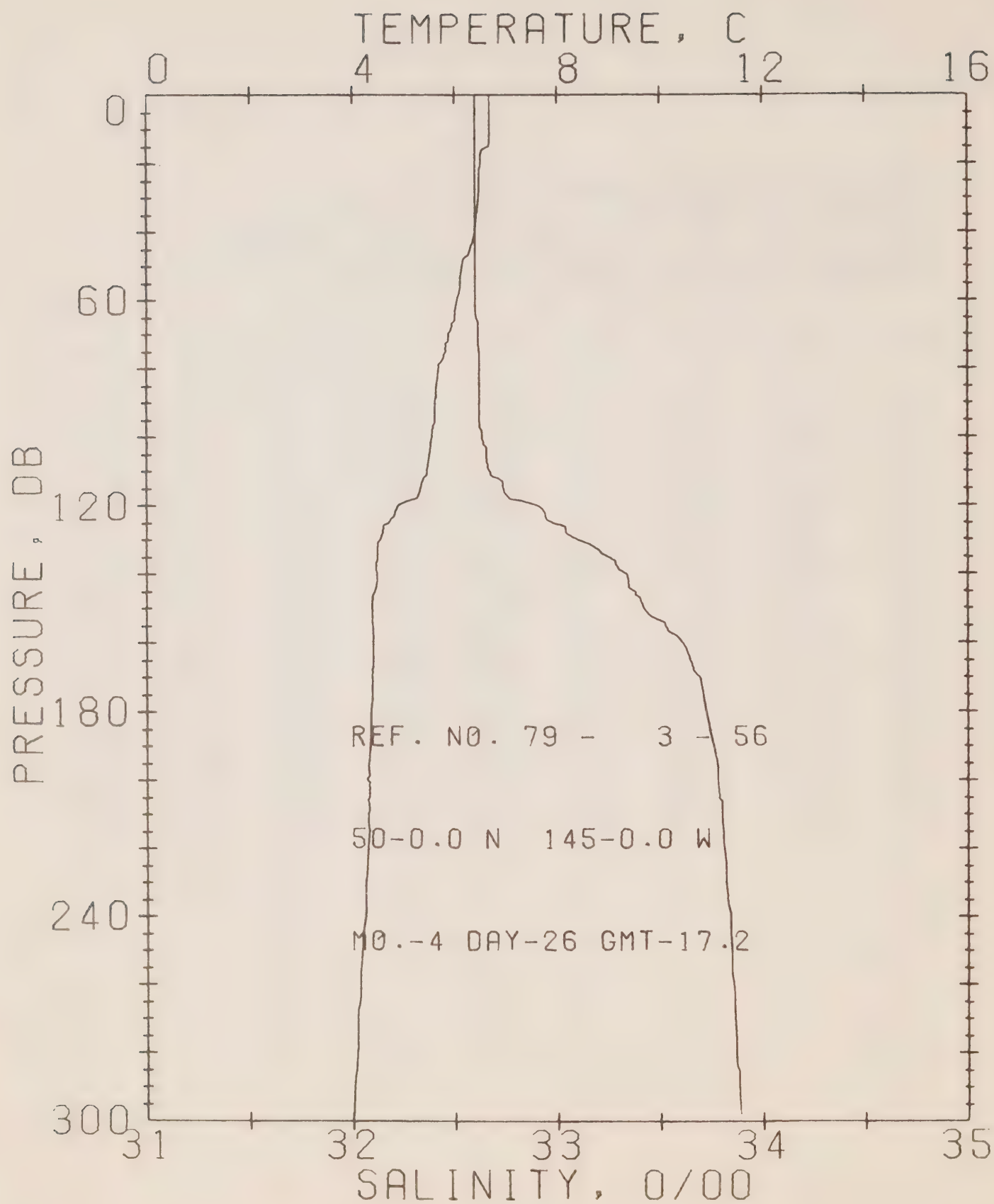
DATE 25/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 220 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.51	32.52	0	25.56	243.8	.00	.00	1474.
10	6.51	32.56	10	25.59	241.0	.24	.01	1474.
20	6.51	32.57	20	25.60	240.3	.48	.05	1474.
30	6.47	32.58	30	25.61	239.2	.72	.11	1474.
50	6.37	32.58	50	25.62	238.2	1.20	.31	1474.
75	6.01	32.60	75	25.68	232.7	1.79	.68	1473.
100	5.62	32.62	99	25.74	226.9	2.36	1.19	1472.
125	5.02	32.87	124	26.01	201.8	2.91	1.81	1470.
150	4.38	33.49	149	26.57	148.7	3.34	2.42	1469.
175	4.34	33.69	174	26.73	133.5	3.69	3.00	1469.
200	4.28	33.78	199	26.81	126.8	4.02	3.62	1470.
225	4.25	33.82	223	26.85	123.1	4.33	4.29	1470.
250	4.15	33.84	248	26.87	121.0	4.63	5.03	1470.
300	4.00	33.89	298	26.93	116.1	5.22	6.68	1470.
400	3.90	34.00	397	27.02	108.0	6.35	10.70	1472.
500	3.77	34.08	496	27.10	100.9	7.40	15.49	1473.
600	3.63	34.17	595	27.18	94.0	8.37	20.94	1474.
800	3.23	34.29	793	27.32	81.9	10.11	33.32	1476.
1000	2.88	34.38	990	27.42	72.7	11.65	47.44	1478.
1200	2.65	34.44	1188	27.49	66.8	13.06	63.15	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 56

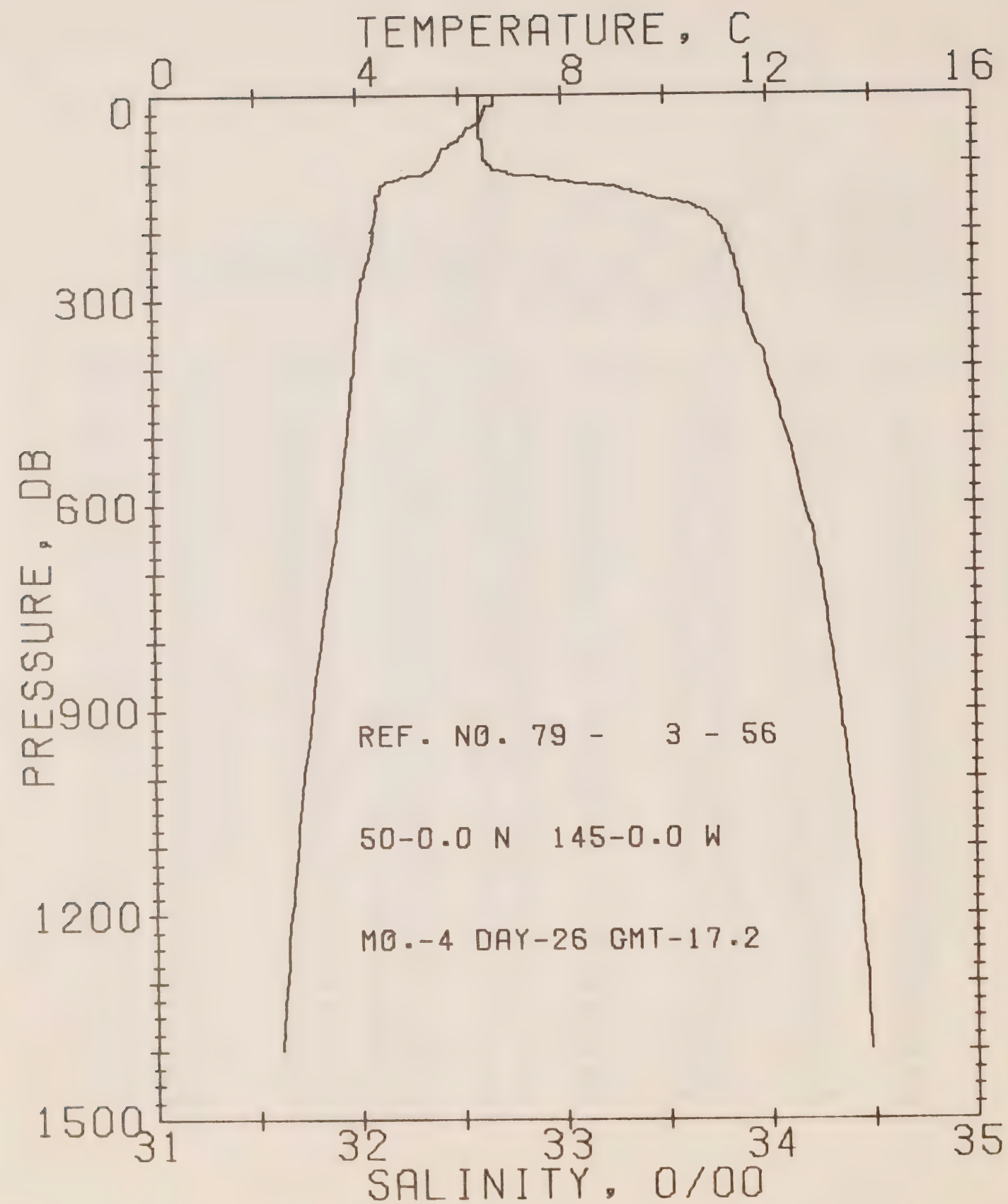
DATE 26/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 139 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.68	32.60	0	25.60	239.9	.00	.00	1475.
10	6.69	32.60	10	25.60	240.2	.24	.01	1475.
20	6.51	32.60	20	25.62	238.1	.48	.05	1474.
30	6.47	32.60	30	25.62	237.6	.72	.11	1474.
40	6.40	32.60	40	25.63	237.0	.95	.19	1474.
50	6.14	32.60	50	25.67	233.9	1.19	.30	1473.
60	6.05	32.60	60	25.68	232.9	1.42	.43	1473.
70	5.88	32.61	70	25.71	230.4	1.66	.59	1473.
80	5.68	32.62	79	25.74	227.4	1.88	.76	1472.
90	5.61	32.62	89	25.75	226.7	2.11	.96	1472.
100	5.54	32.63	99	25.76	225.3	2.34	1.18	1472.
110	5.45	32.67	109	25.80	221.4	2.56	1.42	1472.
120	4.88	32.91	119	26.06	197.2	2.78	1.67	1470.
130	4.53	33.10	129	26.25	179.4	2.96	1.91	1469.
140	4.47	33.34	139	26.44	160.8	3.13	2.14	1469.
150	4.36	33.42	149	26.52	153.8	3.29	2.37	1469.
160	4.40	33.61	159	26.66	140.4	3.44	2.60	1469.
170	4.36	33.69	169	26.73	133.7	3.57	2.84	1469.
180	4.35	33.72	179	26.76	131.2	3.71	3.07	1470.
190	4.33	33.76	189	26.79	128.2	3.84	3.32	1470.
200	4.28	33.78	199	26.81	126.4	3.96	3.57	1470.
210	4.29	33.80	209	26.83	125.1	4.09	3.83	1470.
220	4.28	33.81	218	26.84	124.2	4.21	4.11	1470.
230	4.24	33.82	228	26.85	123.3	4.34	4.39	1470.
240	4.22	33.84	238	26.86	121.7	4.46	4.68	1470.
250	4.18	33.85	248	26.88	120.6	4.58	4.99	1470.
260	4.13	33.85	258	26.89	119.8	4.70	5.30	1470.
270	4.09	33.86	268	26.90	118.8	4.82	5.62	1470.
280	4.07	33.87	278	26.90	118.1	4.94	5.95	1470.
290	4.02	33.88	288	26.92	116.8	5.06	6.29	1470.
300	4.01	33.89	298	26.93	116.2	5.17	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 56

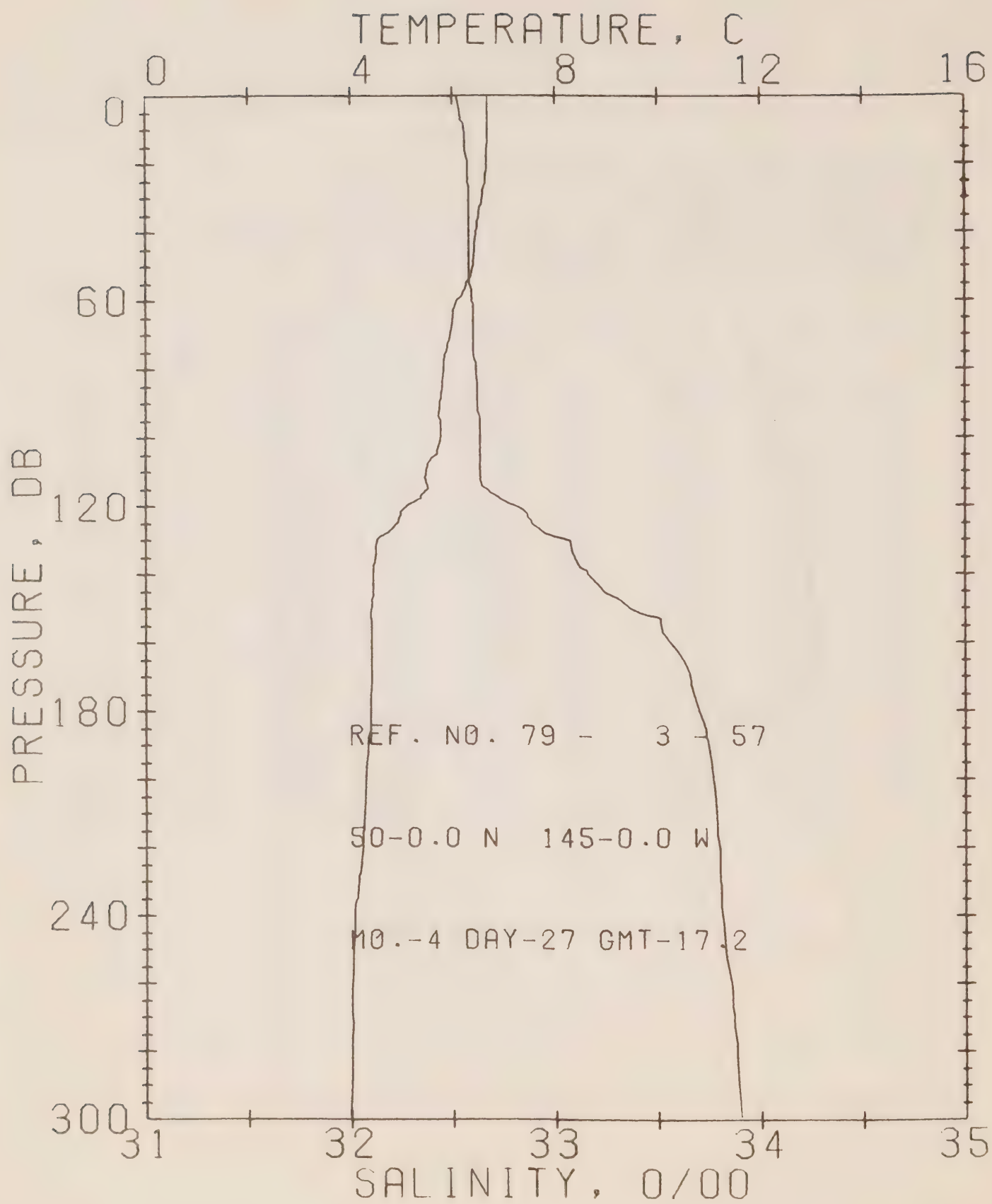
DATE 26/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 213 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.68	32.60	0	25.60	239.9	.00	.00	1475.
10	6.69	32.60	10	25.60	240.2	.24	.01	1475.
20	6.51	32.60	20	25.62	238.1	.48	.05	1474.
30	6.47	32.60	30	25.62	237.6	.72	.11	1474.
50	6.14	32.60	50	25.67	233.9	1.19	.30	1473.
75	5.80	32.62	75	25.72	228.7	1.77	.67	1472.
100	5.54	32.63	99	25.76	225.3	2.34	1.18	1472.
125	4.70	32.98	124	26.13	190.1	2.87	1.79	1469.
150	4.36	33.42	149	26.52	153.8	3.29	2.37	1469.
175	4.36	33.70	174	26.74	132.7	3.64	2.95	1469.
200	4.28	33.78	199	26.81	126.4	3.96	3.57	1470.
225	4.26	33.82	223	26.84	123.6	4.28	4.25	1470.
250	4.18	33.85	248	26.88	120.6	4.58	4.99	1470.
300	4.01	33.89	298	26.93	116.2	5.17	6.64	1470.
400	3.91	33.99	397	27.02	108.1	6.30	10.66	1472.
500	3.76	34.09	496	27.11	100.4	7.35	15.44	1473.
600	3.63	34.17	595	27.19	93.8	8.31	20.87	1474.
800	3.23	34.30	793	27.33	81.3	10.05	33.21	1476.
1000	2.88	34.38	990	27.42	72.7	11.59	47.27	1478.
1200	2.62	34.44	1188	27.50	66.5	12.97	62.78	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 57

DATE 27/ 4/79

POSITION 50- .0N, 145- .0W

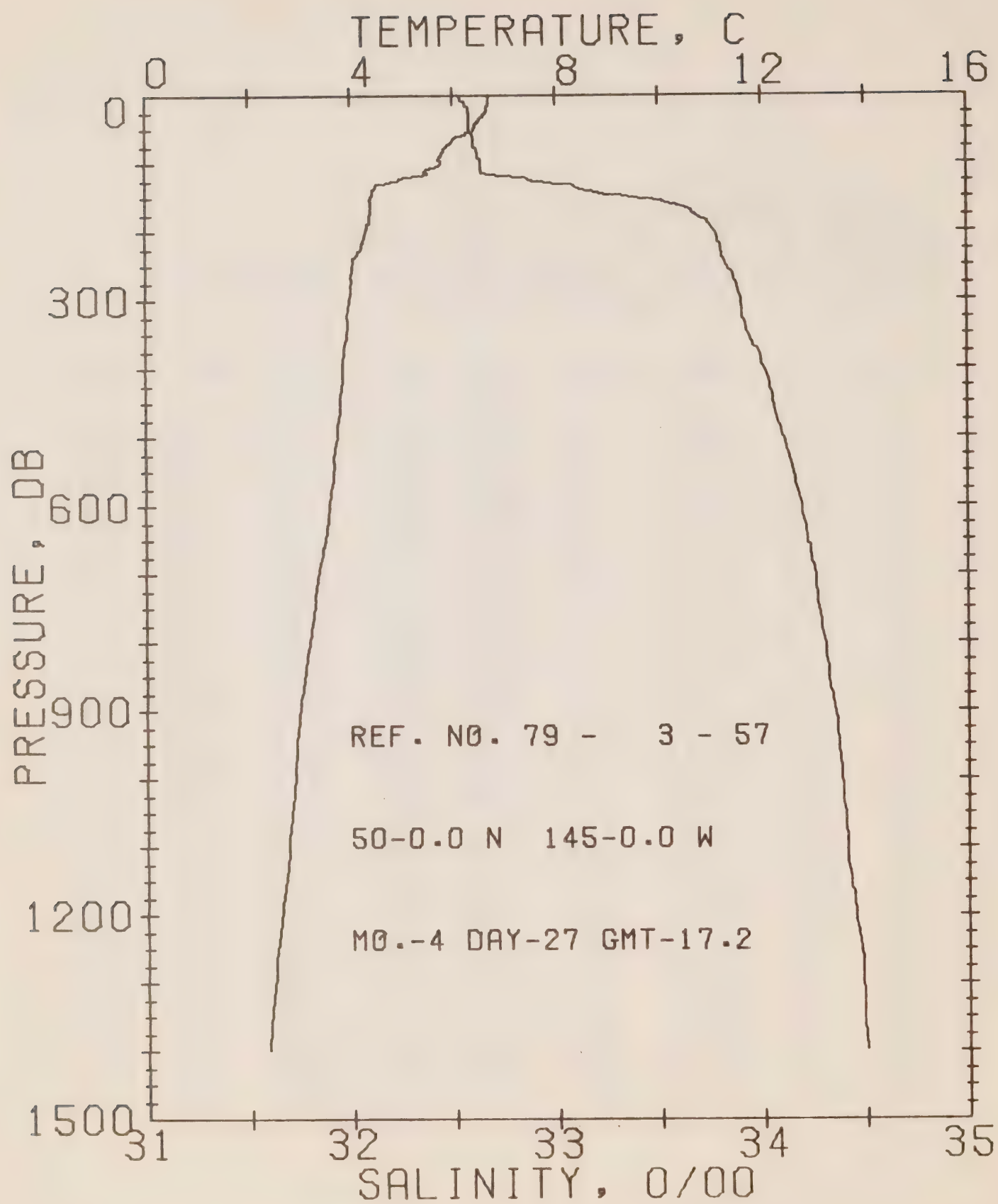
GMT 17.2

STATION P

RESULTS OF STP CAST 144 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.52	0	25.53	246.1	.00	.00	1475.
10	6.70	32.56	10	25.56	243.5	.25	.01	1475.
20	6.67	32.57	20	25.57	242.3	.49	.05	1475.
30	6.58	32.58	30	25.59	240.5	.73	.11	1475.
40	6.46	32.58	40	25.61	239.2	.97	.20	1474.
50	6.39	32.58	50	25.62	238.5	1.21	.31	1474.
60	6.07	32.59	60	25.67	234.0	1.45	.44	1473.
70	5.94	32.60	70	25.69	231.8	1.68	.59	1473.
80	5.81	32.61	79	25.71	229.7	1.91	.77	1472.
90	5.74	32.62	89	25.73	228.2	2.14	.97	1472.
100	5.75	32.63	99	25.74	227.7	2.36	1.19	1473.
110	5.47	32.63	109	25.77	224.6	2.59	1.43	1472.
120	5.09	32.81	119	25.96	207.0	2.81	1.69	1470.
130	4.50	33.07	129	26.23	181.3	3.01	1.94	1468.
140	4.43	33.16	139	26.30	173.9	3.19	2.19	1468.
150	4.39	33.37	149	26.47	157.8	3.35	2.43	1469.
160	4.41	33.56	159	26.62	143.9	3.50	2.67	1469.
170	4.39	33.65	169	26.70	136.7	3.64	2.90	1469.
180	4.37	33.70	179	26.74	133.2	3.78	3.14	1470.
190	4.32	33.74	189	26.78	129.4	3.91	3.39	1470.
200	4.28	33.77	199	26.80	127.2	4.04	3.64	1470.
210	4.26	33.79	209	26.82	125.8	4.16	3.91	1470.
220	4.21	33.80	218	26.83	124.4	4.29	4.18	1470.
230	4.13	33.80	228	26.85	123.2	4.41	4.47	1470.
240	4.05	33.81	238	26.86	121.8	4.53	4.76	1469.
250	4.03	33.83	248	26.87	120.6	4.66	5.06	1469.
260	4.02	33.85	258	26.90	118.6	4.78	5.37	1470.
270	4.01	33.87	268	26.91	117.4	4.89	5.69	1470.
280	4.00	33.88	278	26.92	116.7	5.01	6.02	1470.
290	3.99	33.89	288	26.93	115.8	5.13	6.36	1470.
300	3.98	33.90	298	26.94	115.1	5.24	6.71	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 57

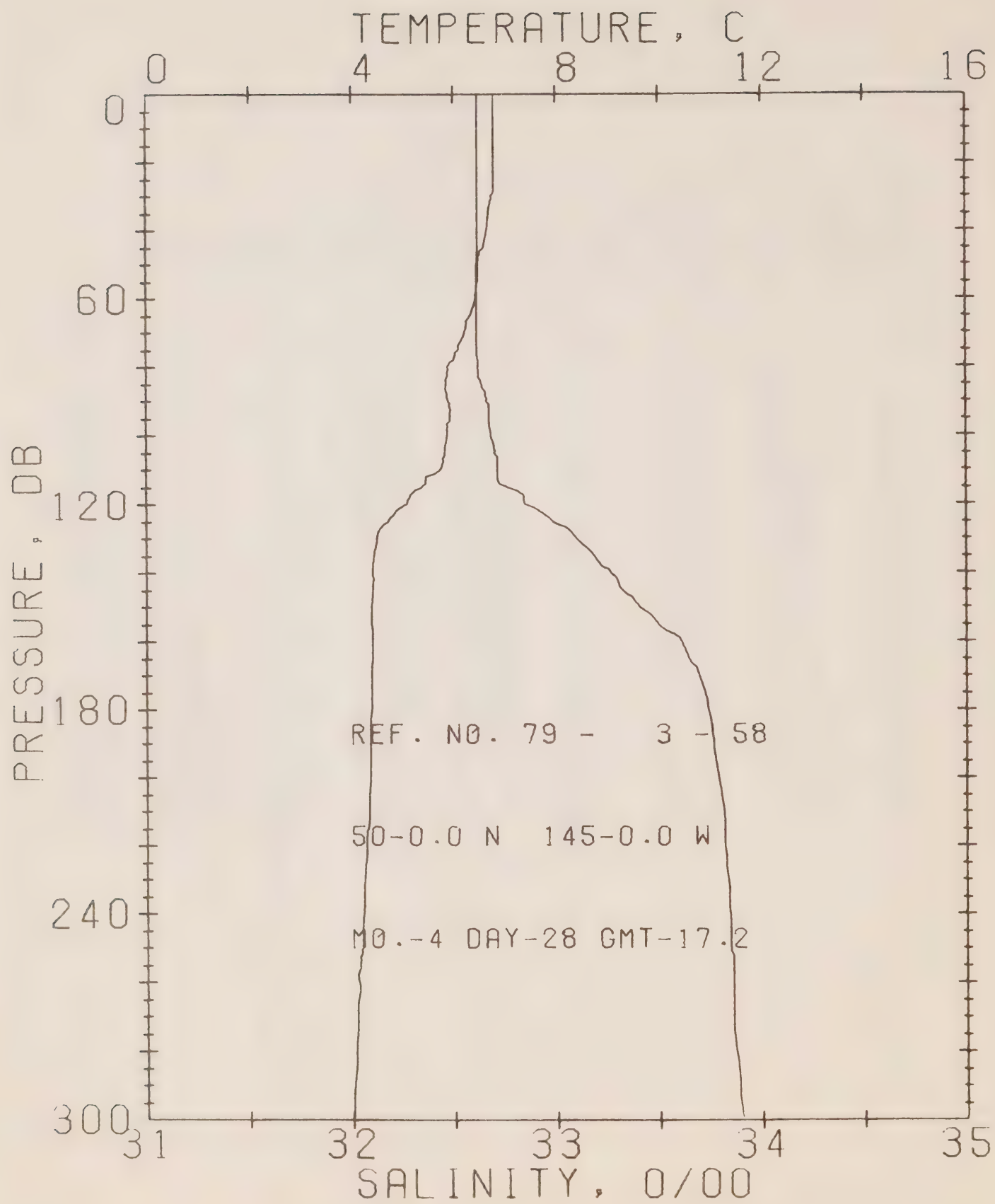
DATE 27/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 245 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.52	0	25.53	246.1	.00	.00	1475.
10	6.70	32.56	10	25.56	243.5	.25	.01	1475.
20	6.67	32.57	20	25.57	242.3	.49	.05	1475.
30	6.58	32.56	30	25.59	240.5	.73	.11	1475.
50	6.39	32.56	50	25.62	238.5	1.21	.31	1474.
75	5.87	32.60	75	25.70	231.0	1.79	.68	1473.
100	5.75	32.63	99	25.74	227.7	2.36	1.19	1473.
125	4.90	32.89	124	26.04	199.0	2.91	1.81	1470.
150	4.39	33.37	149	26.47	157.8	3.35	2.43	1469.
175	4.38	33.67	174	26.72	135.1	3.71	3.02	1470.
200	4.28	33.77	199	26.80	127.2	4.04	3.64	1470.
225	4.19	33.80	223	26.84	124.2	4.35	4.32	1470.
250	4.03	33.83	248	26.87	120.6	4.66	5.06	1469.
300	3.98	33.90	298	26.94	115.1	5.24	6.71	1470.
400	3.84	34.01	397	27.04	106.3	6.36	10.67	1471.
500	3.73	34.10	496	27.12	99.1	7.38	15.38	1473.
600	3.58	34.19	595	27.21	91.7	8.34	20.71	1474.
800	3.17	34.31	793	27.34	80.0	10.05	32.91	1475.
1000	2.87	34.38	990	27.43	72.4	11.57	46.79	1478.
1200	2.61	34.45	1188	27.50	65.7	12.96	62.35	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 58

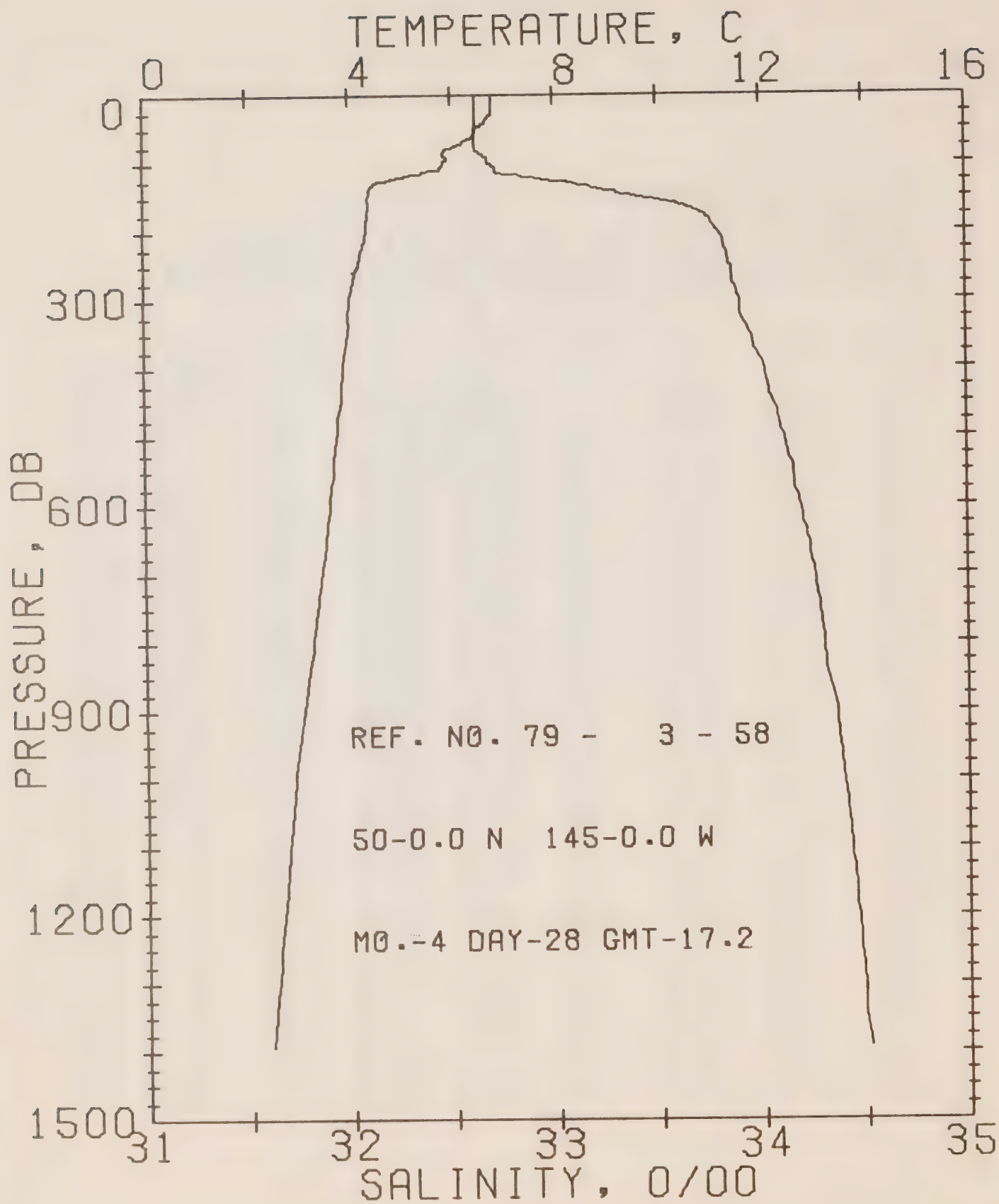
DATE 28/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.62	0	25.60	240.0	.00	.00	1475.
10	6.80	32.62	10	25.60	240.0	.24	.01	1475.
20	6.80	32.62	20	25.60	240.2	.48	.05	1475.
30	6.76	32.62	30	25.60	239.8	.72	.11	1475.
40	6.65	32.62	40	25.62	238.5	.96	.20	1475.
50	6.48	32.61	50	25.63	237.1	1.20	.30	1475.
60	6.43	32.61	60	25.64	236.8	1.43	.44	1475.
70	6.22	32.61	70	25.66	234.4	1.67	.59	1474.
80	5.88	32.62	79	25.71	229.7	1.90	.77	1473.
90	5.90	32.66	89	25.74	227.1	2.13	.97	1473.
100	5.86	32.68	99	25.76	225.2	2.36	1.19	1473.
110	5.73	32.71	109	25.80	221.6	2.58	1.43	1473.
120	5.07	32.85	119	25.99	203.8	2.79	1.68	1470.
130	4.49	33.10	129	26.25	178.9	2.98	1.92	1468.
140	4.41	33.27	139	26.39	165.5	3.15	2.15	1469.
150	4.38	33.41	149	26.51	154.7	3.31	2.39	1469.
160	4.40	33.61	159	26.66	140.2	3.46	2.62	1469.
170	4.38	33.69	169	26.73	133.5	3.60	2.85	1469.
180	4.36	33.74	179	26.77	130.1	3.73	3.09	1470.
190	4.34	33.77	189	26.80	127.7	3.86	3.33	1470.
200	4.34	33.79	199	26.81	126.0	3.99	3.58	1470.
210	4.31	33.82	209	26.84	124.1	4.11	3.84	1470.
220	4.28	33.82	218	26.84	123.6	4.23	4.12	1470.
230	4.23	33.84	228	26.86	121.9	4.36	4.40	1470.
240	4.19	33.84	238	26.87	121.0	4.48	4.69	1470.
250	4.18	33.85	248	26.88	120.6	4.60	4.99	1470.
260	4.11	33.86	258	26.89	119.2	4.72	5.30	1470.
270	4.08	33.86	268	26.90	118.9	4.84	5.62	1470.
280	4.06	33.87	278	26.91	117.7	4.96	5.95	1470.
290	4.01	33.89	288	26.93	116.2	5.07	6.29	1470.
300	3.99	33.90	298	26.94	115.3	5.19	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 58

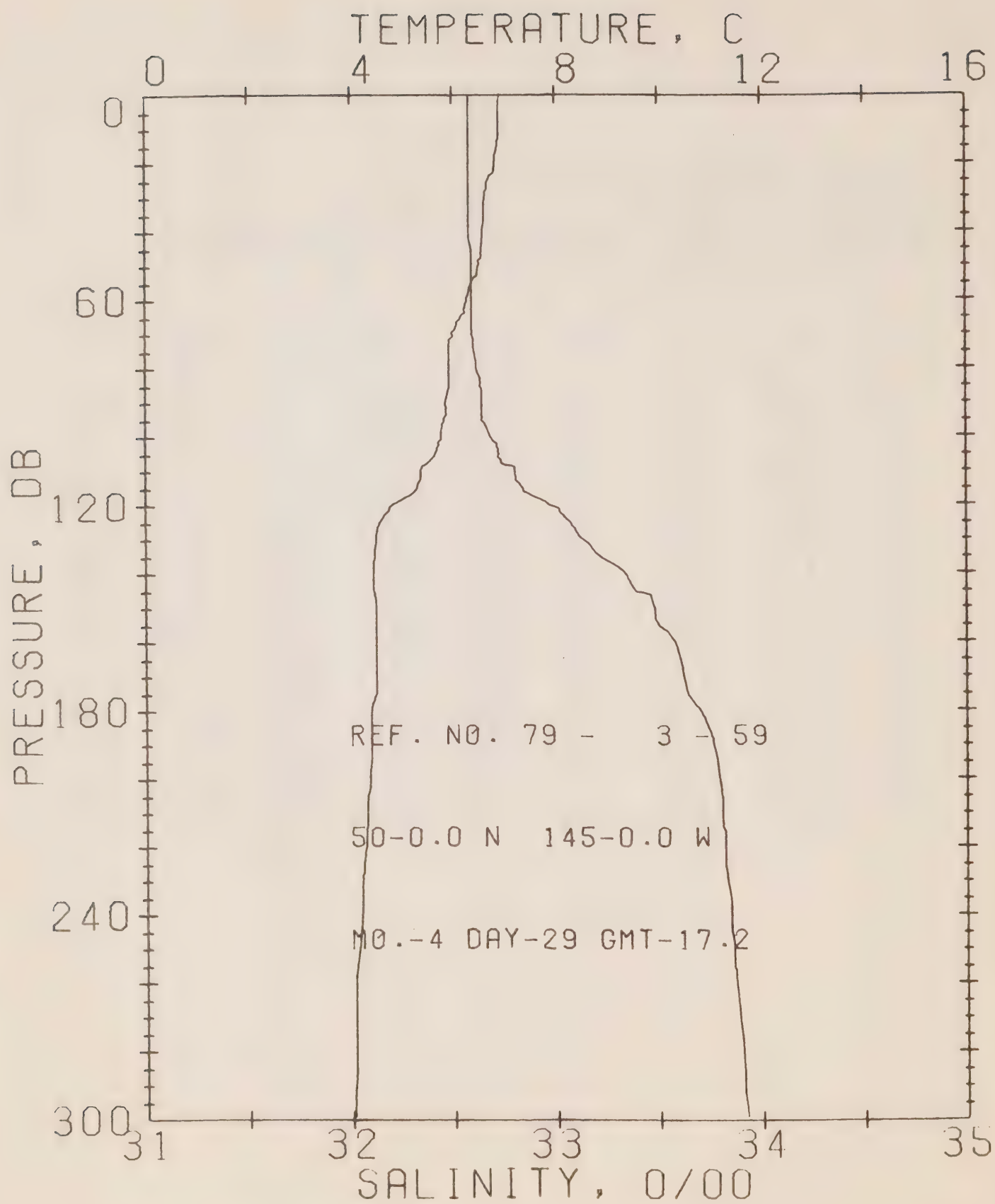
DATE 28/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 225 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.62	0	25.60	240.0	.00	.00	1475.
10	6.80	32.62	10	25.60	240.0	.24	.01	1475.
20	6.80	32.62	20	25.60	240.2	.48	.05	1475.
30	6.76	32.62	30	25.60	239.8	.72	.11	1475.
50	6.48	32.61	50	25.63	237.1	1.20	.30	1475.
75	6.07	32.61	75	25.68	232.7	1.79	.68	1473.
100	5.86	32.68	99	25.76	225.2	2.36	1.19	1473.
125	4.70	32.99	124	26.14	189.3	2.89	1.80	1469.
150	4.38	33.41	149	26.51	154.7	3.31	2.39	1469.
175	4.37	33.72	174	26.75	131.6	3.66	2.97	1470.
200	4.34	33.79	199	26.81	126.0	3.99	3.58	1470.
225	4.25	33.83	223	26.85	122.6	4.30	4.26	1470.
250	4.18	33.85	248	26.88	120.6	4.60	4.99	1470.
300	3.99	33.90	298	26.94	115.3	5.19	6.64	1470.
400	3.88	34.01	397	27.04	106.3	6.31	10.62	1472.
500	3.73	34.11	496	27.13	98.7	7.33	15.32	1473.
600	3.60	34.19	595	27.20	92.2	8.29	20.67	1474.
800	3.26	34.30	793	27.33	81.5	10.01	32.93	1476.
1000	2.88	34.39	990	27.44	71.7	11.54	46.88	1478.
1200	2.64	34.46	1188	27.51	65.5	12.91	62.22	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 59

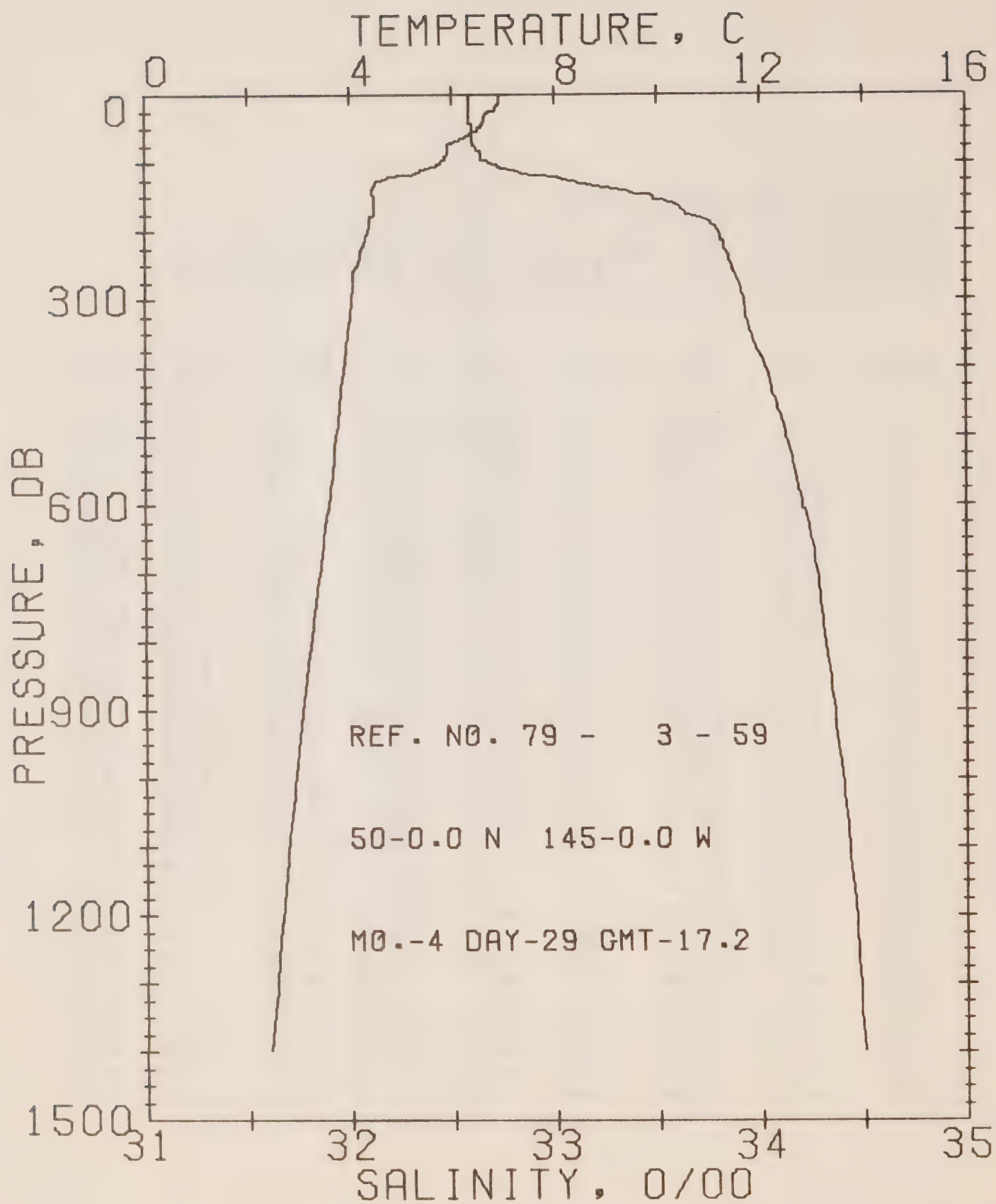
DATE 29/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.93	32.58	0	25.55	244.5	.00	.00	1476.
10	6.92	32.58	10	25.55	244.5	.24	.01	1476.
20	6.83	32.58	20	25.56	243.5	.49	.05	1476.
30	6.63	32.58	30	25.59	241.1	.73	.11	1475.
40	6.60	32.58	40	25.59	240.9	.97	.20	1475.
50	6.50	32.59	50	25.61	239.1	1.21	.31	1475.
60	6.28	32.59	60	25.64	236.5	1.45	.44	1474.
70	5.97	32.59	70	25.68	232.9	1.68	.60	1473.
80	5.92	32.61	79	25.70	230.9	1.92	.77	1473.
90	5.85	32.64	89	25.73	228.0	2.15	.97	1473.
100	5.76	32.68	99	25.77	224.1	2.37	1.19	1473.
110	5.35	32.80	109	25.92	210.5	2.59	1.43	1471.
120	4.81	32.97	119	26.11	192.0	2.80	1.67	1469.
130	4.48	33.13	129	26.27	176.6	2.98	1.90	1468.
140	4.42	33.34	139	26.45	160.3	3.15	2.13	1469.
150	4.47	33.48	149	26.55	150.4	3.30	2.36	1469.
160	4.48	33.58	159	26.63	143.1	3.45	2.59	1470.
170	4.48	33.62	169	26.66	140.4	3.59	2.83	1470.
180	4.38	33.70	179	26.74	133.3	3.73	3.08	1470.
190	4.37	33.76	189	26.79	128.4	3.86	3.32	1470.
200	4.35	33.79	199	26.81	126.1	3.99	3.58	1470.
210	4.30	33.81	209	26.83	124.4	4.11	3.84	1470.
220	4.28	33.82	218	26.84	123.6	4.24	4.11	1470.
230	4.20	33.83	228	26.86	121.9	4.36	4.39	1470.
240	4.17	33.85	238	26.88	120.3	4.48	4.68	1470.
250	4.12	33.86	248	26.89	119.2	4.60	4.98	1470.
260	4.06	33.87	258	26.91	117.7	4.72	5.29	1470.
270	4.06	33.89	268	26.92	116.5	4.84	5.61	1470.
280	4.06	33.90	278	26.93	115.5	4.95	5.93	1470.
290	4.04	33.91	288	26.94	114.9	5.07	6.26	1470.
300	4.02	33.92	298	26.95	114.0	5.18	6.61	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 59

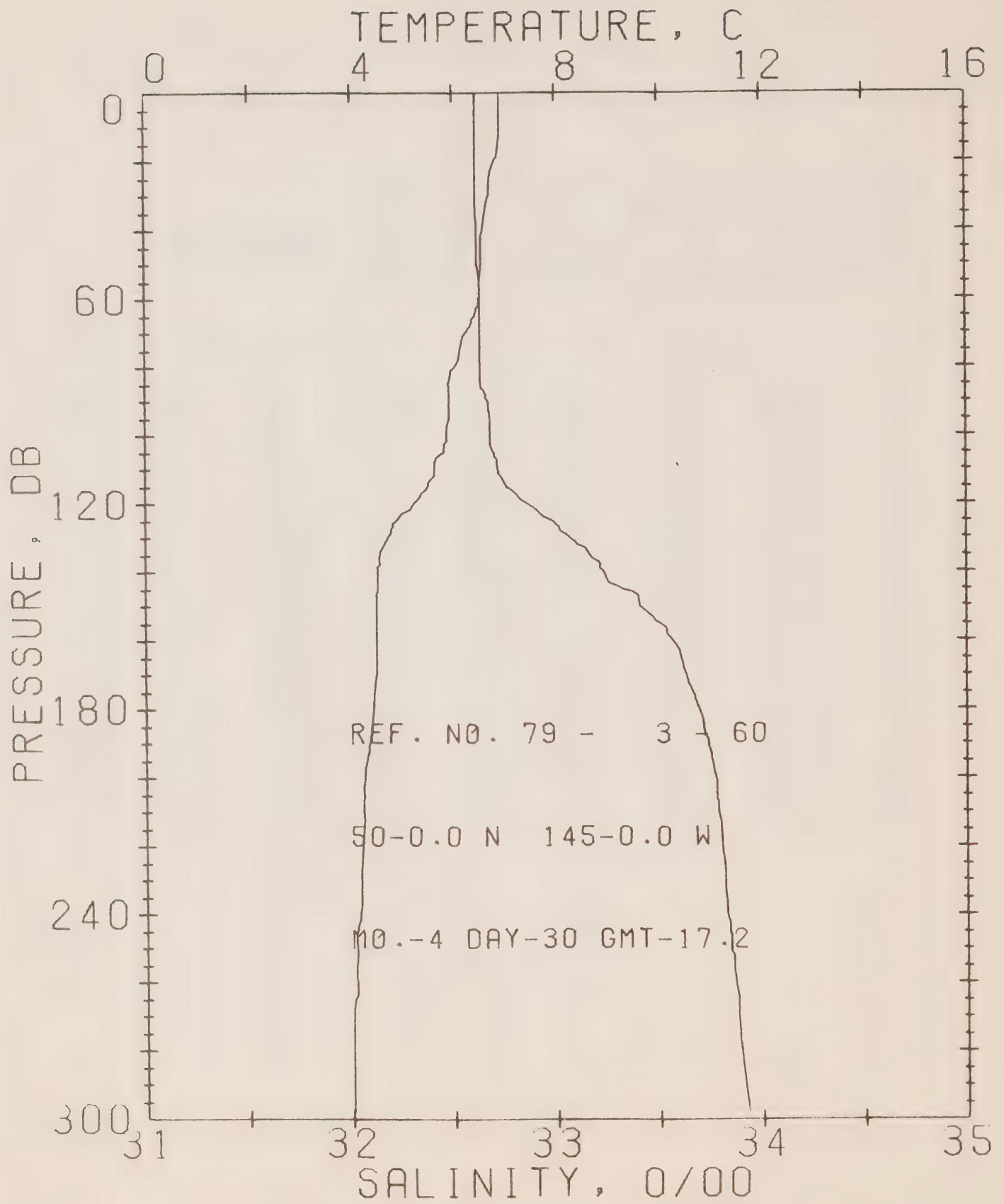
DATE 29/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 223 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.93	32.58	0	25.55	244.5	.00	.00	1476.
10	6.92	32.58	10	25.55	244.5	.24	.01	1476.
20	6.83	32.58	20	25.56	243.5	.49	.05	1476.
30	6.63	32.58	30	25.59	241.1	.73	.11	1475.
50	6.50	32.59	50	25.61	239.1	1.21	.31	1475.
75	5.92	32.60	75	25.69	231.5	1.80	.68	1473.
100	5.76	32.68	99	25.77	224.1	2.37	1.19	1473.
125	4.57	33.07	124	26.22	182.0	2.89	1.78	1469.
150	4.47	33.48	149	26.55	150.4	3.30	2.36	1469.
175	4.47	33.64	174	26.68	138.7	3.66	2.96	1470.
200	4.35	33.79	199	26.81	126.1	3.99	3.58	1470.
225	4.22	33.82	223	26.85	123.0	4.30	4.25	1470.
250	4.12	33.86	248	26.89	119.2	4.60	4.98	1470.
300	4.02	33.92	298	26.95	114.0	5.18	6.61	1470.
400	3.87	34.02	397	27.04	105.9	6.29	10.56	1472.
500	3.71	34.12	496	27.14	97.6	7.31	15.21	1473.
600	3.58	34.20	595	27.22	90.9	8.25	20.48	1474.
800	3.20	34.31	793	27.34	80.0	9.94	32.51	1476.
1000	2.90	34.40	990	27.44	71.7	11.45	46.38	1478.
1200	2.64	34.46	1188	27.51	65.5	12.82	61.73	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 60

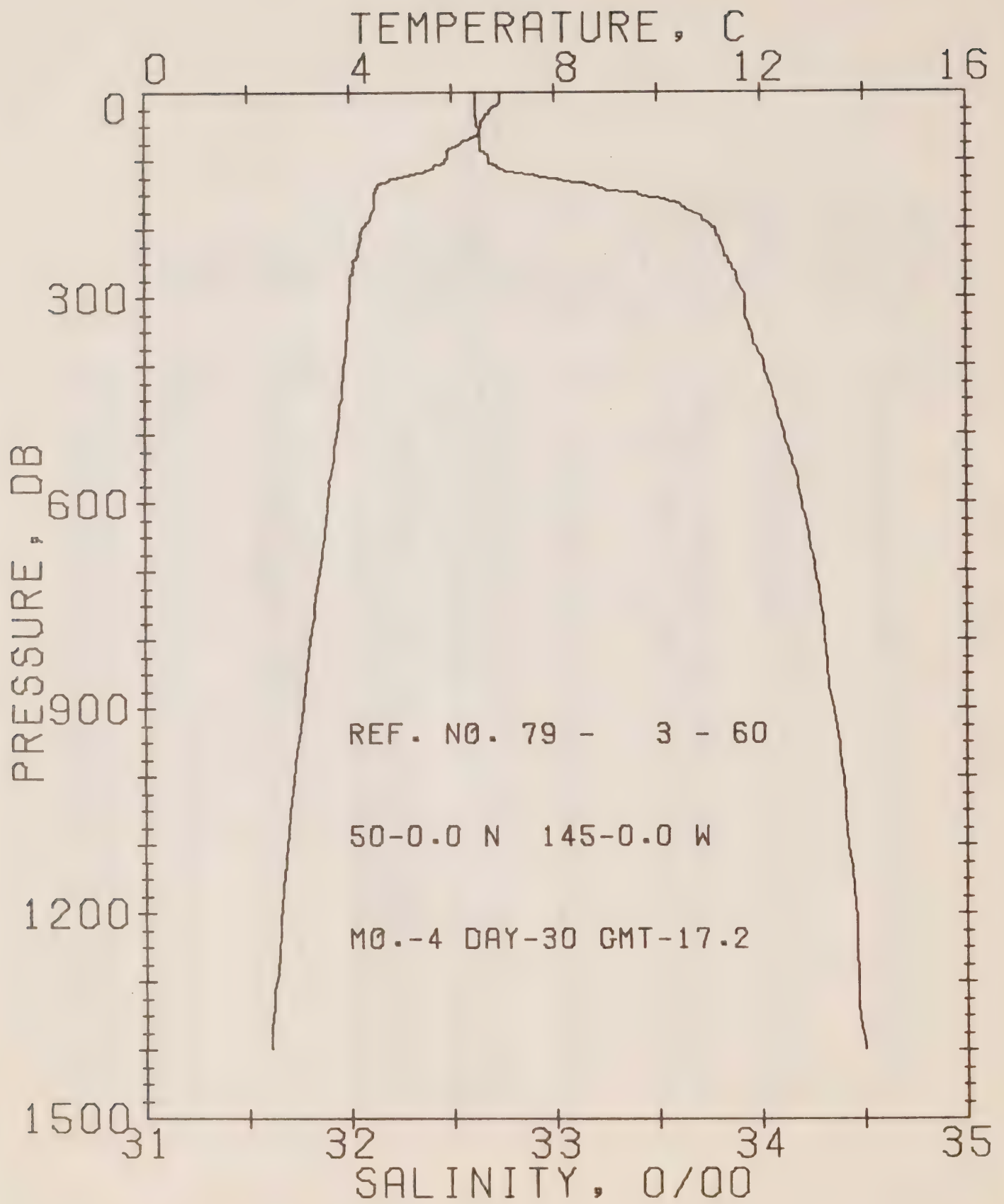
DATE 30/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 150 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.94	32.61	0	25.57	242.4	.00	.00	1476.
10	6.94	32.61	10	25.57	242.6	.24	.01	1476.
20	6.84	32.61	20	25.58	241.4	.48	.05	1476.
30	6.72	32.61	30	25.60	240.0	.73	.11	1475.
40	6.59	32.62	40	25.62	237.8	.96	.20	1475.
50	6.55	32.62	50	25.63	237.4	1.20	.30	1475.
60	6.51	32.63	60	25.64	236.3	1.44	.44	1475.
70	6.24	32.63	70	25.68	233.1	1.67	.59	1474.
80	6.02	32.63	79	25.70	230.6	1.91	.77	1473.
90	5.93	32.67	89	25.75	226.7	2.13	.97	1473.
100	5.88	32.68	99	25.76	225.5	2.36	1.19	1473.
110	5.63	32.72	109	25.82	220.0	2.58	1.43	1472.
120	5.22	32.86	119	25.98	204.7	2.80	1.68	1471.
130	4.72	33.07	129	26.20	183.5	2.99	1.92	1469.
140	4.51	33.23	139	26.35	169.5	3.17	2.16	1469.
150	4.49	33.41	149	26.50	155.9	3.33	2.40	1469.
160	4.49	33.57	159	26.62	144.4	3.48	2.64	1470.
170	4.47	33.63	169	26.67	139.4	3.62	2.88	1470.
180	4.41	33.69	179	26.73	134.3	3.76	3.12	1470.
190	4.34	33.74	189	26.77	129.9	3.89	3.37	1470.
200	4.24	33.78	199	26.81	126.3	4.02	3.63	1469.
210	4.21	33.79	209	26.83	125.0	4.14	3.89	1470.
220	4.19	33.81	218	26.84	123.6	4.27	4.16	1470.
230	4.16	33.82	228	26.85	122.4	4.39	4.44	1470.
240	4.14	33.83	238	26.86	121.6	4.51	4.73	1470.
250	4.07	33.85	248	26.89	119.4	4.63	5.03	1470.
260	4.07	33.87	258	26.90	118.0	4.75	5.34	1470.
270	4.00	33.88	268	26.92	116.4	4.87	5.66	1470.
280	4.00	33.90	278	26.93	115.4	4.98	5.98	1470.
290	4.00	33.92	288	26.95	114.1	5.10	6.32	1470.
300	3.99	33.93	298	26.96	113.0	5.21	6.66	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 60

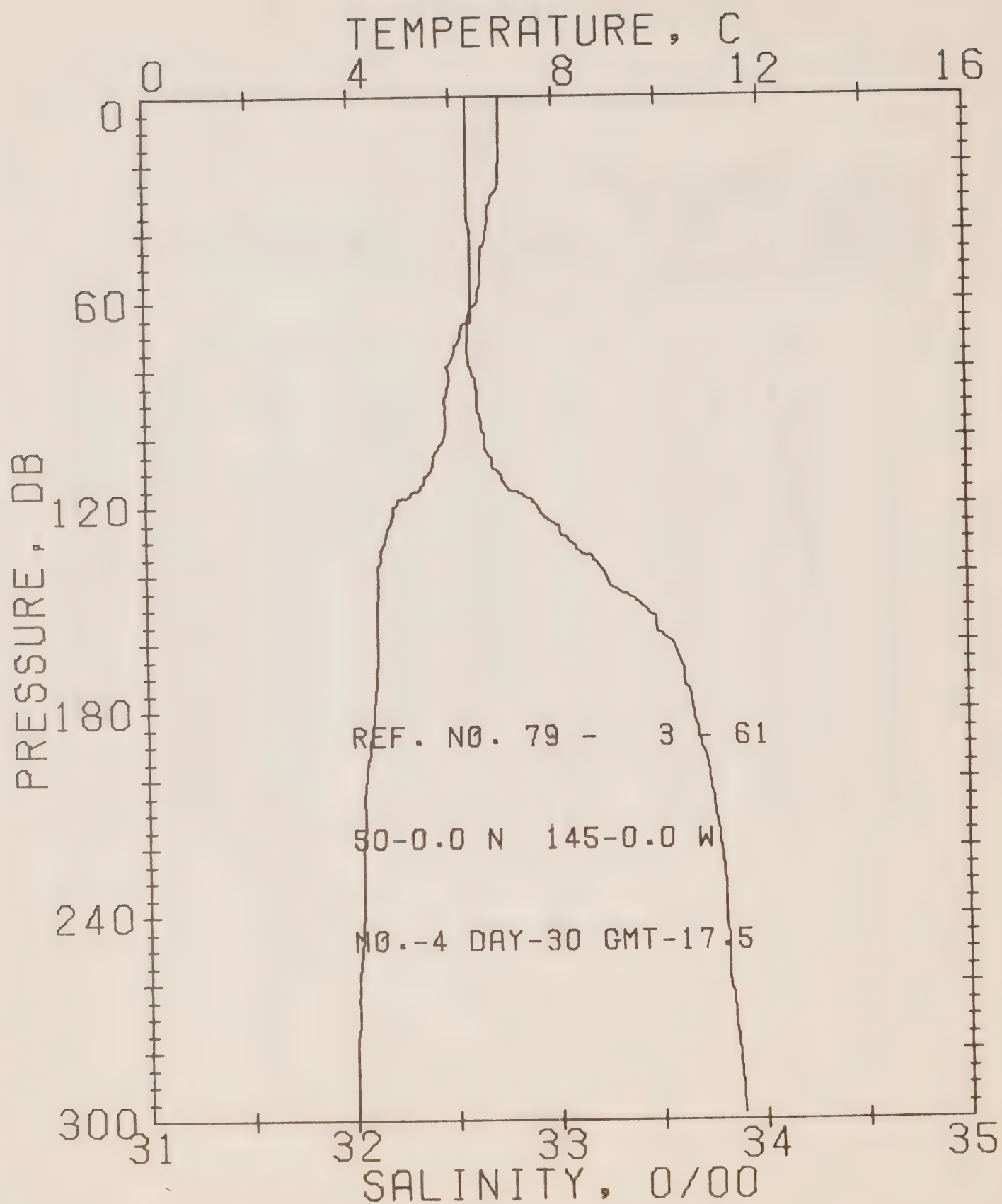
DATE 30/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 235 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.94	32.61	0	25.57	242.4	.00	.00	1476.
10	6.94	32.61	10	25.57	242.6	.24	.01	1476.
20	6.84	32.61	20	25.58	241.4	.48	.05	1476.
30	6.72	32.61	30	25.60	240.0	.73	.11	1475.
50	6.55	32.62	50	25.63	237.4	1.20	.30	1475.
75	6.14	32.63	75	25.69	232.0	1.79	.68	1474.
100	5.88	32.68	99	25.76	225.5	2.36	1.19	1473.
125	4.88	32.99	124	26.12	191.3	2.90	1.80	1470.
150	4.49	33.41	149	26.50	155.9	3.33	2.40	1469.
175	4.44	33.66	174	26.70	136.6	3.69	3.00	1470.
200	4.24	33.78	199	26.81	126.3	4.02	3.63	1469.
225	4.18	33.82	223	26.85	122.8	4.33	4.30	1470.
250	4.07	33.85	248	26.89	119.4	4.63	5.03	1470.
300	3.99	33.93	298	26.96	113.0	5.21	6.66	1470.
400	3.88	34.01	397	27.04	106.4	6.32	10.60	1472.
500	3.73	34.11	496	27.13	98.5	7.34	15.29	1473.
600	3.55	34.20	595	27.22	90.8	8.29	20.57	1474.
800	3.21	34.31	793	27.34	80.1	9.99	32.68	1476.
1000	2.88	34.40	990	27.44	71.5	11.51	46.59	1478.
1200	2.63	34.46	1188	27.51	65.5	12.88	61.93	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 61

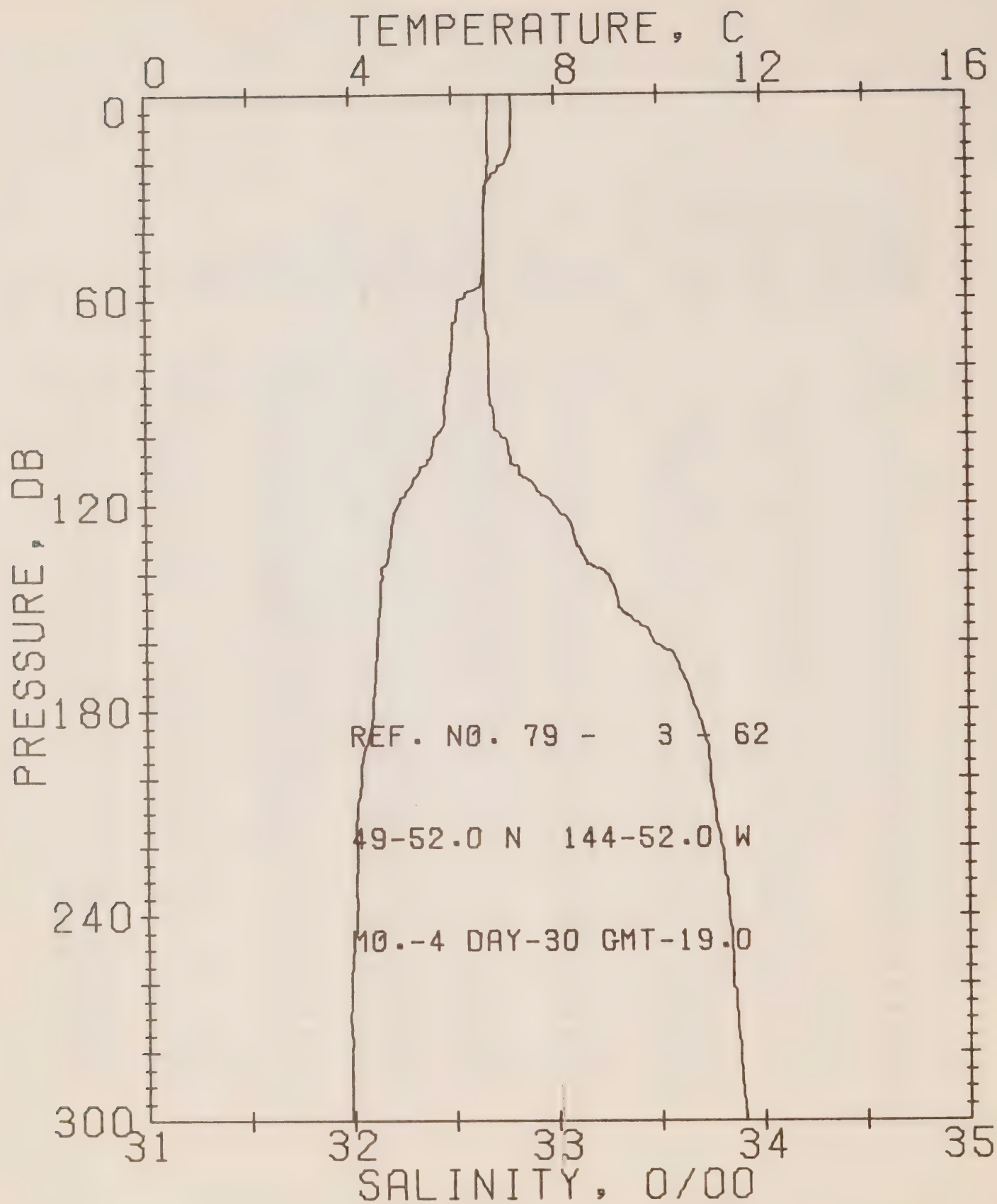
DATE 30/ 4/79

POSITION 50- .0N, 145- .0W GMT 17.5 STATION P

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.95	32.58	0	25.55	244.8	.00	.00	1476.
10	6.95	32.58	10	25.55	244.9	.24	.01	1476.
20	6.94	32.58	20	25.55	244.9	.49	.05	1476.
30	6.78	32.58	30	25.57	243.0	.73	.11	1475.
40	6.68	32.59	40	25.59	241.2	.98	.20	1475.
50	6.56	32.59	50	25.60	239.8	1.22	.31	1475.
60	6.50	32.59	60	25.61	239.2	1.46	.44	1475.
70	6.17	32.58	70	25.65	236.0	1.69	.60	1474.
80	5.93	32.59	79	25.68	232.5	1.93	.78	1473.
90	5.85	32.62	89	25.72	229.5	2.16	.98	1473.
100	5.81	32.65	99	25.75	226.8	2.39	1.20	1473.
110	5.53	32.72	109	25.83	218.5	2.61	1.44	1472.
120	4.84	32.91	119	26.06	196.8	2.82	1.69	1470.
130	4.63	33.06	129	26.20	183.4	3.01	1.93	1469.
140	4.52	33.23	139	26.35	169.6	3.19	2.17	1469.
150	4.49	33.43	149	26.51	154.4	3.35	2.41	1469.
160	4.48	33.56	159	26.62	144.6	3.50	2.65	1470.
170	4.46	33.61	169	26.66	140.8	3.64	2.89	1470.
180	4.41	33.66	179	26.70	136.8	3.78	3.13	1470.
190	4.33	33.69	189	26.73	133.6	3.92	3.39	1470.
200	4.24	33.73	199	26.78	129.4	4.05	3.65	1469.
210	4.21	33.76	209	26.80	127.3	4.17	3.92	1469.
220	4.16	33.79	218	26.83	124.6	4.30	4.19	1469.
230	4.16	33.81	228	26.84	123.4	4.42	4.48	1470.
240	4.16	33.81	238	26.85	123.3	4.55	4.77	1470.
250	4.10	33.82	248	26.86	121.9	4.67	5.08	1470.
260	4.06	33.83	258	26.87	121.1	4.79	5.39	1470.
270	4.06	33.85	268	26.89	119.5	4.91	5.72	1470.
280	4.01	33.87	278	26.91	117.6	5.03	6.05	1470.
290	3.99	33.88	288	26.92	116.8	5.15	6.39	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 62

DATE 30/ 4/79

POSITION 49-52.0N, 144-52.0W

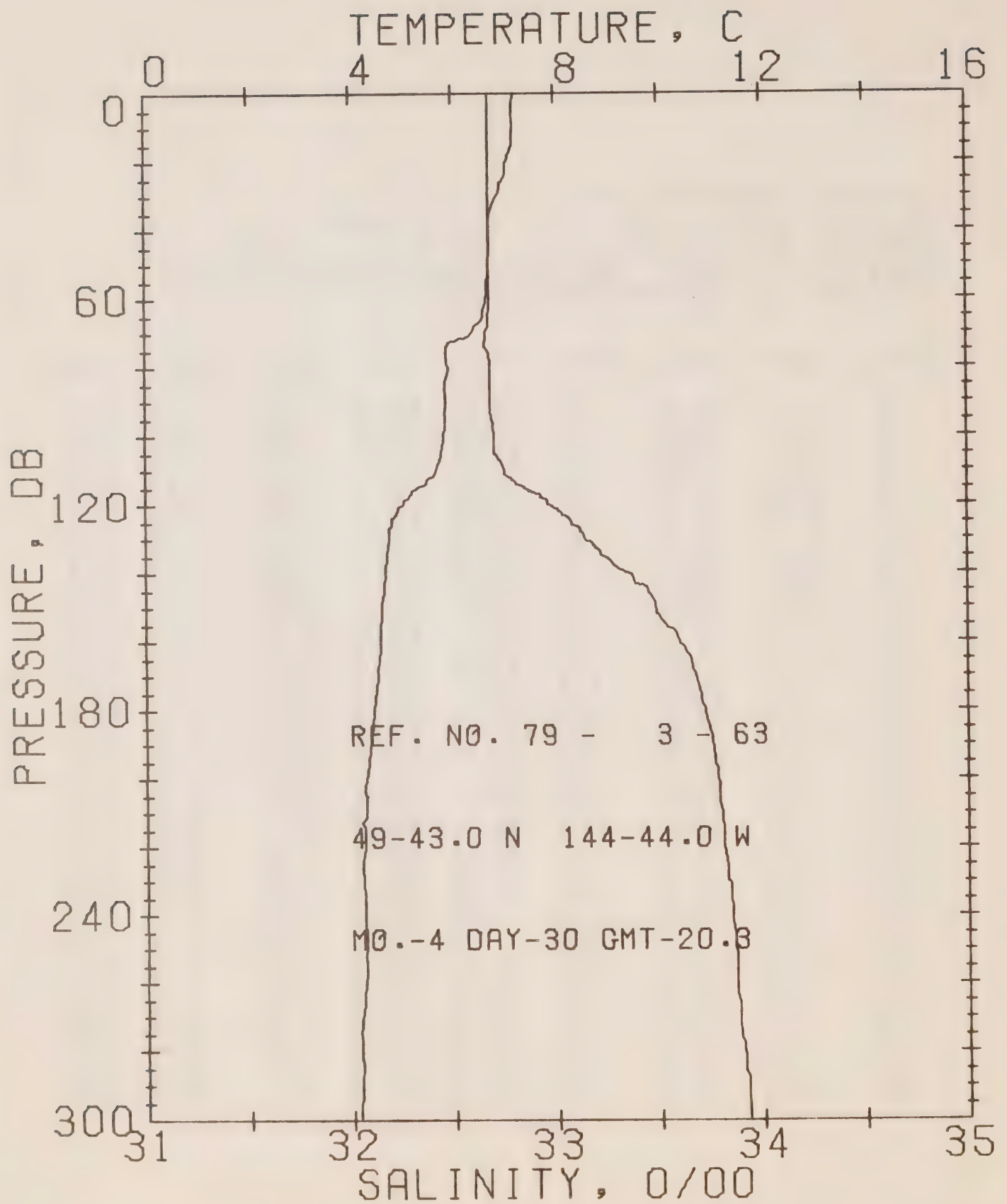
GMT 19.0

STATION E3

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.15	32.68	0	25.60	239.9	.00	.00	1477.
10	7.15	32.67	10	25.59	240.8	.24	.01	1477.
20	7.00	32.68	20	25.62	238.2	.48	.05	1476.
30	6.62	32.66	30	25.65	235.1	.72	.11	1475.
40	6.62	32.65	40	25.64	235.9	.95	.19	1475.
50	6.60	32.65	50	25.65	235.7	1.19	.30	1475.
60	6.11	32.65	60	25.71	230.0	1.42	.43	1473.
70	6.00	32.67	70	25.73	227.6	1.65	.58	1473.
80	5.94	32.67	79	25.75	226.7	1.88	.76	1473.
90	5.83	32.68	89	25.77	224.8	2.10	.95	1473.
100	5.64	32.73	99	25.83	218.9	2.33	1.17	1472.
110	5.33	32.82	109	25.94	208.8	2.54	1.40	1471.
120	4.90	32.99	119	26.12	191.4	2.74	1.63	1470.
130	4.76	33.09	129	26.21	182.7	2.93	1.87	1470.
140	4.59	33.24	139	26.35	169.6	3.11	2.11	1469.
150	4.54	33.30	149	26.40	164.6	3.27	2.36	1469.
160	4.49	33.47	159	26.54	151.5	3.43	2.61	1469.
170	4.45	33.61	169	26.66	140.7	3.57	2.85	1470.
180	4.40	33.67	179	26.71	135.4	3.71	3.10	1470.
190	4.27	33.72	189	26.77	130.3	3.84	3.35	1469.
200	4.16	33.74	199	26.79	128.2	3.97	3.60	1469.
210	4.08	33.77	209	26.82	125.4	4.10	3.87	1469.
220	4.07	33.80	218	26.84	123.3	4.22	4.14	1469.
230	4.05	33.82	228	26.87	121.3	4.35	4.42	1469.
240	4.06	33.83	238	26.87	120.8	4.47	4.71	1469.
250	3.99	33.84	248	26.89	119.0	4.59	5.01	1469.
260	3.95	33.85	258	26.90	118.3	4.71	5.32	1469.
270	3.93	33.87	268	26.92	116.6	4.82	5.64	1469.
280	3.95	33.88	278	26.92	116.2	4.94	5.96	1470.
290	3.95	33.89	288	26.93	115.3	5.06	6.30	1470.
300	3.96	33.91	298	26.95	114.2	5.17	6.64	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 63

DATE 30/ 4/79

POSITION 49-43.0N, 144-44.0W

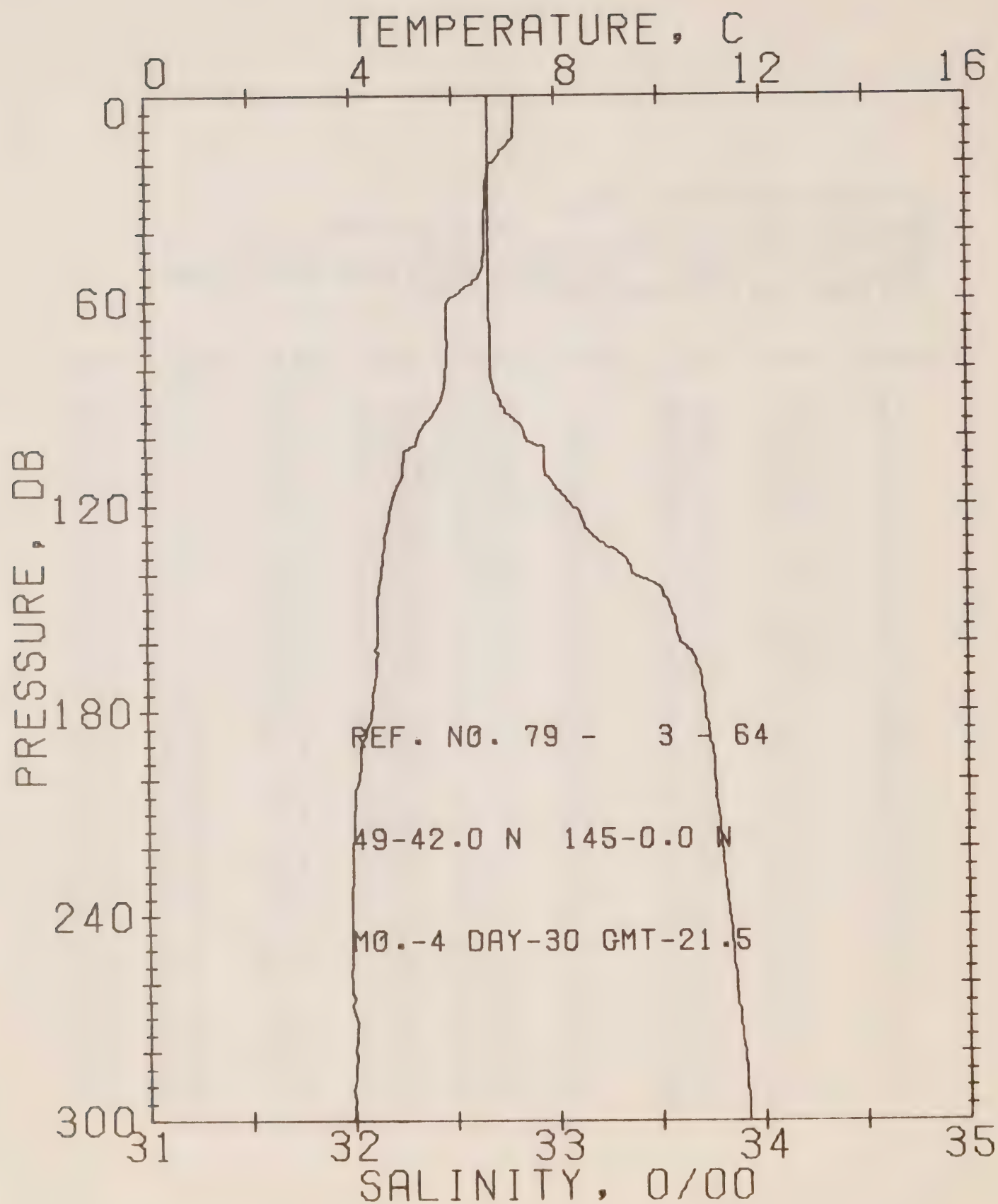
GMT 20.3

STATION E4

RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.19	32.68	0	25.59	240.4	.00	.00	1477.
10	7.19	32.68	10	25.59	240.5	.24	.01	1477.
20	7.05	32.68	20	25.61	238.9	.48	.05	1477.
30	6.87	32.68	30	25.63	236.7	.72	.11	1476.
40	6.73	32.68	40	25.65	235.1	.95	.19	1476.
50	6.70	32.68	50	25.66	234.8	1.19	.30	1476.
60	6.65	32.68	60	25.66	234.3	1.42	.43	1476.
70	6.34	32.66	70	25.69	232.1	1.66	.59	1474.
80	5.91	32.68	79	25.76	225.6	1.88	.76	1473.
90	5.86	32.68	89	25.76	225.1	2.11	.96	1473.
100	5.82	32.70	99	25.78	223.3	2.33	1.17	1473.
110	5.65	32.74	109	25.84	218.0	2.56	1.41	1472.
120	5.01	32.96	119	26.08	194.9	2.76	1.65	1470.
130	4.74	33.14	129	26.25	178.6	2.95	1.89	1470.
140	4.67	33.34	139	26.42	162.9	3.12	2.12	1470.
150	4.59	33.48	149	26.54	151.4	3.27	2.35	1470.
160	4.55	33.59	159	26.63	143.0	3.42	2.59	1470.
170	4.51	33.67	169	26.70	136.8	3.56	2.82	1470.
180	4.43	33.72	179	26.75	132.3	3.70	3.06	1470.
190	4.36	33.76	189	26.78	129.0	3.83	3.31	1470.
200	4.26	33.78	199	26.81	126.2	3.95	3.56	1470.
210	4.28	33.80	209	26.83	125.0	4.08	3.82	1470.
220	4.24	33.81	218	26.84	123.9	4.20	4.10	1470.
230	4.21	33.83	228	26.86	122.2	4.33	4.38	1470.
240	4.24	33.85	238	26.87	121.1	4.45	4.67	1470.
250	4.26	33.86	248	26.88	120.4	4.57	4.97	1470.
260	4.24	33.87	258	26.89	119.8	4.69	5.28	1471.
270	4.18	33.88	268	26.90	118.5	4.81	5.60	1470.
280	4.17	33.90	278	26.92	116.7	4.93	5.93	1471.
290	4.16	33.92	288	26.93	115.5	5.04	6.27	1471.
300	4.12	33.93	298	26.95	114.4	5.16	6.62	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 64

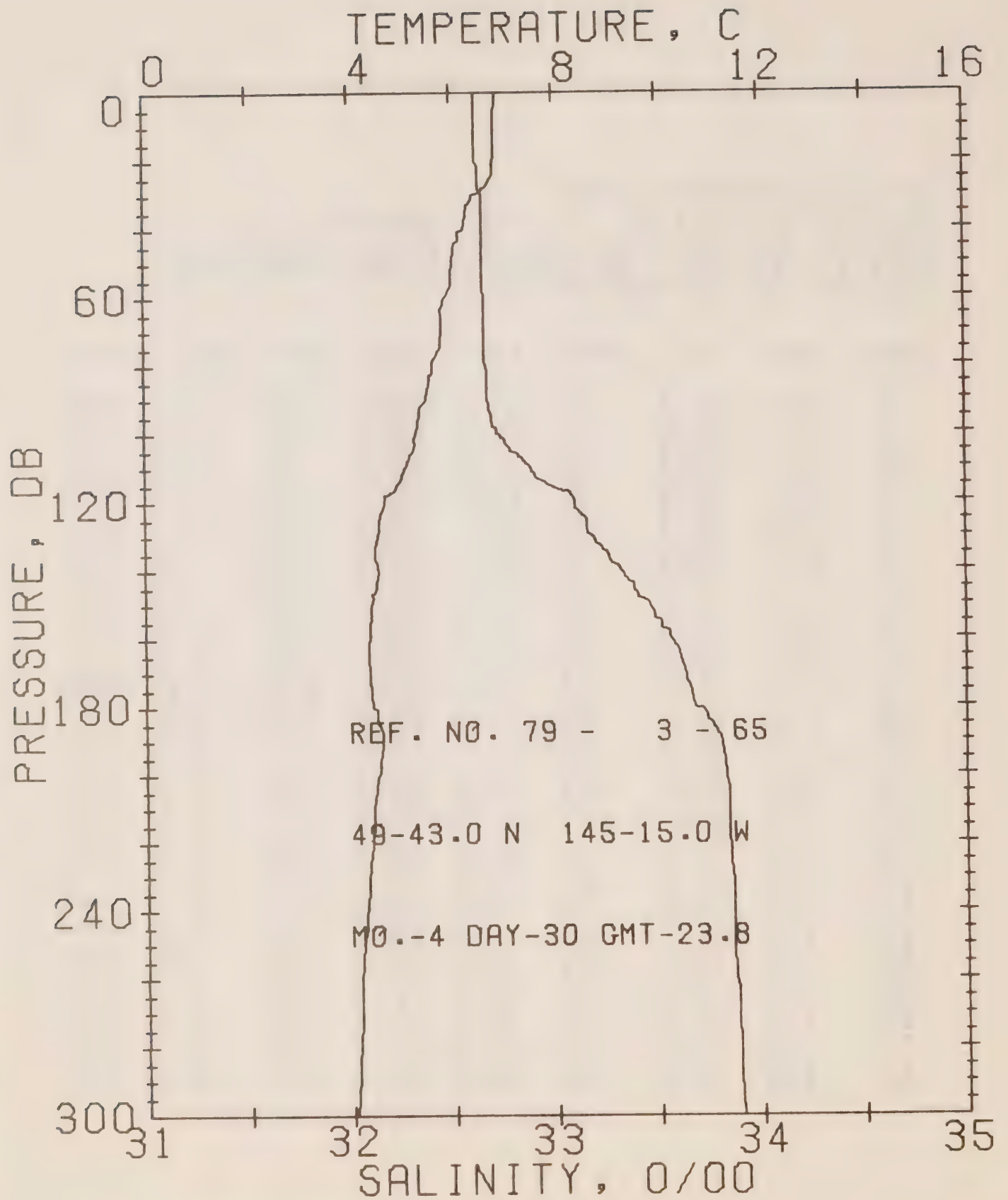
DATE 30/ 4/79

POSITION 49-42.0N, 145- .0W GMT 21.5 STATION C1

RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.20	32.67	0	25.58	241.3	.00	.00	1477.
10	7.18	32.68	10	25.59	240.4	.24	.01	1477.
20	6.71	32.67	20	25.65	235.3	.48	.05	1475.
30	6.64	32.67	30	25.66	234.6	.72	.11	1475.
40	6.62	32.67	40	25.66	234.4	.95	.19	1475.
50	6.58	32.67	50	25.66	234.1	1.18	.30	1475.
60	5.90	32.67	60	25.75	226.0	1.41	.43	1473.
70	5.87	32.68	70	25.76	225.1	1.64	.58	1473.
80	5.84	32.68	79	25.76	224.8	1.87	.75	1473.
90	5.71	32.73	89	25.82	219.6	2.09	.94	1472.
100	5.28	32.85	99	25.97	205.9	2.30	1.15	1471.
110	4.98	32.95	109	26.08	195.5	2.50	1.36	1470.
120	4.76	33.07	119	26.20	183.9	2.69	1.58	1469.
130	4.63	33.20	129	26.31	172.9	2.87	1.81	1469.
140	4.55	33.37	139	26.46	159.4	3.03	2.04	1469.
150	4.49	33.55	149	26.61	145.4	3.18	2.26	1469.
160	4.48	33.60	159	26.65	141.6	3.33	2.49	1470.
170	4.44	33.69	169	26.73	134.2	3.46	2.72	1470.
180	4.35	33.72	179	26.76	131.5	3.60	2.95	1470.
190	4.16	33.74	189	26.80	127.7	3.73	3.20	1469.
200	4.10	33.76	199	26.81	126.0	3.85	3.45	1469.
210	4.00	33.78	209	26.84	123.3	3.98	3.71	1469.
220	3.98	33.80	218	26.86	122.2	4.10	3.98	1469.
230	3.97	33.81	228	26.87	120.9	4.22	4.26	1469.
240	3.96	33.83	238	26.89	119.5	4.34	4.55	1469.
250	3.94	33.85	248	26.90	118.1	4.46	4.84	1469.
260	3.94	33.86	258	26.91	117.4	4.58	5.15	1469.
270	4.02	33.88	268	26.92	116.8	4.69	5.46	1470.
280	4.01	33.90	278	26.93	115.3	4.81	5.79	1470.
290	3.97	33.91	288	26.95	114.2	4.93	6.12	1470.
300	3.96	33.92	298	26.95	113.5	5.04	6.47	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 65

DATE 30/ 4/79

POSITION 49-43.0N, 145-15.0W

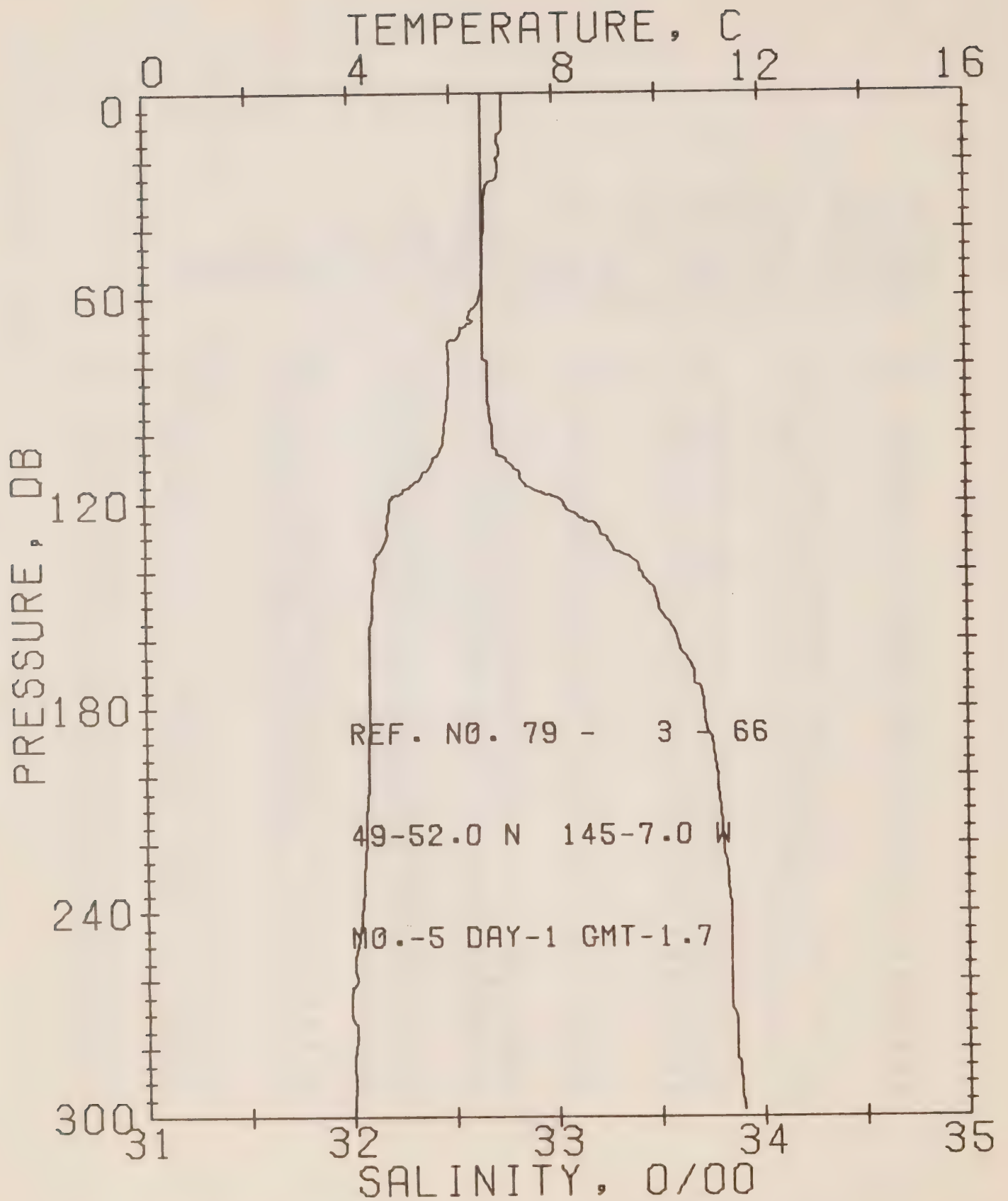
GMT 23.8

STATION W4

RESULTS OF STP CAST 166 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.88	32.62	0	25.59	240.9	.00	.00	1475.
10	6.86	32.62	10	25.59	240.8	.24	.01	1476.
20	6.84	32.62	20	25.59	240.7	.48	.05	1476.
30	6.43	32.65	30	25.67	233.5	.72	.11	1474.
40	6.23	32.65	40	25.69	231.2	.95	.19	1474.
50	6.02	32.65	50	25.72	228.8	1.18	.30	1473.
60	5.88	32.66	60	25.74	226.5	1.41	.43	1472.
70	5.80	32.66	70	25.75	225.7	1.64	.58	1472.
80	5.63	32.66	79	25.78	223.6	1.86	.75	1472.
90	5.50	32.67	89	25.80	221.7	2.08	.94	1471.
100	5.28	32.72	99	25.86	215.6	2.30	1.15	1471.
110	5.06	32.88	109	26.01	201.3	2.51	1.38	1470.
120	4.67	33.10	119	26.23	180.7	2.70	1.60	1469.
130	4.53	33.18	129	26.31	173.4	2.88	1.83	1469.
140	4.55	33.32	139	26.42	163.2	3.05	2.06	1469.
150	4.41	33.46	149	26.54	151.3	3.21	2.29	1469.
160	4.36	33.56	159	26.63	143.3	3.35	2.52	1469.
170	4.37	33.63	169	26.68	138.5	3.49	2.76	1469.
180	4.42	33.67	179	26.71	135.9	3.63	3.00	1470.
190	4.62	33.80	189	26.79	128.0	3.76	3.25	1471.
200	4.54	33.83	199	26.82	125.4	3.89	3.50	1471.
210	4.44	33.84	209	26.84	123.7	4.01	3.76	1471.
220	4.40	33.85	218	26.85	122.9	4.14	4.03	1471.
230	4.34	33.86	228	26.87	121.5	4.26	4.31	1470.
240	4.29	33.86	238	26.87	120.8	4.38	4.60	1470.
250	4.21	33.86	248	26.88	120.2	4.50	4.90	1470.
260	4.17	33.87	258	26.89	119.0	4.62	5.21	1470.
270	4.15	33.88	268	26.90	118.2	4.74	5.53	1470.
280	4.12	33.89	278	26.91	117.3	4.86	5.86	1470.
290	4.09	33.89	288	26.92	116.9	4.97	6.20	1470.
300	4.06	33.90	298	26.93	116.0	5.09	6.55	1471.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 66

DATE 1/ 5/79

POSITION 49-52.0N, 145- 7.0W

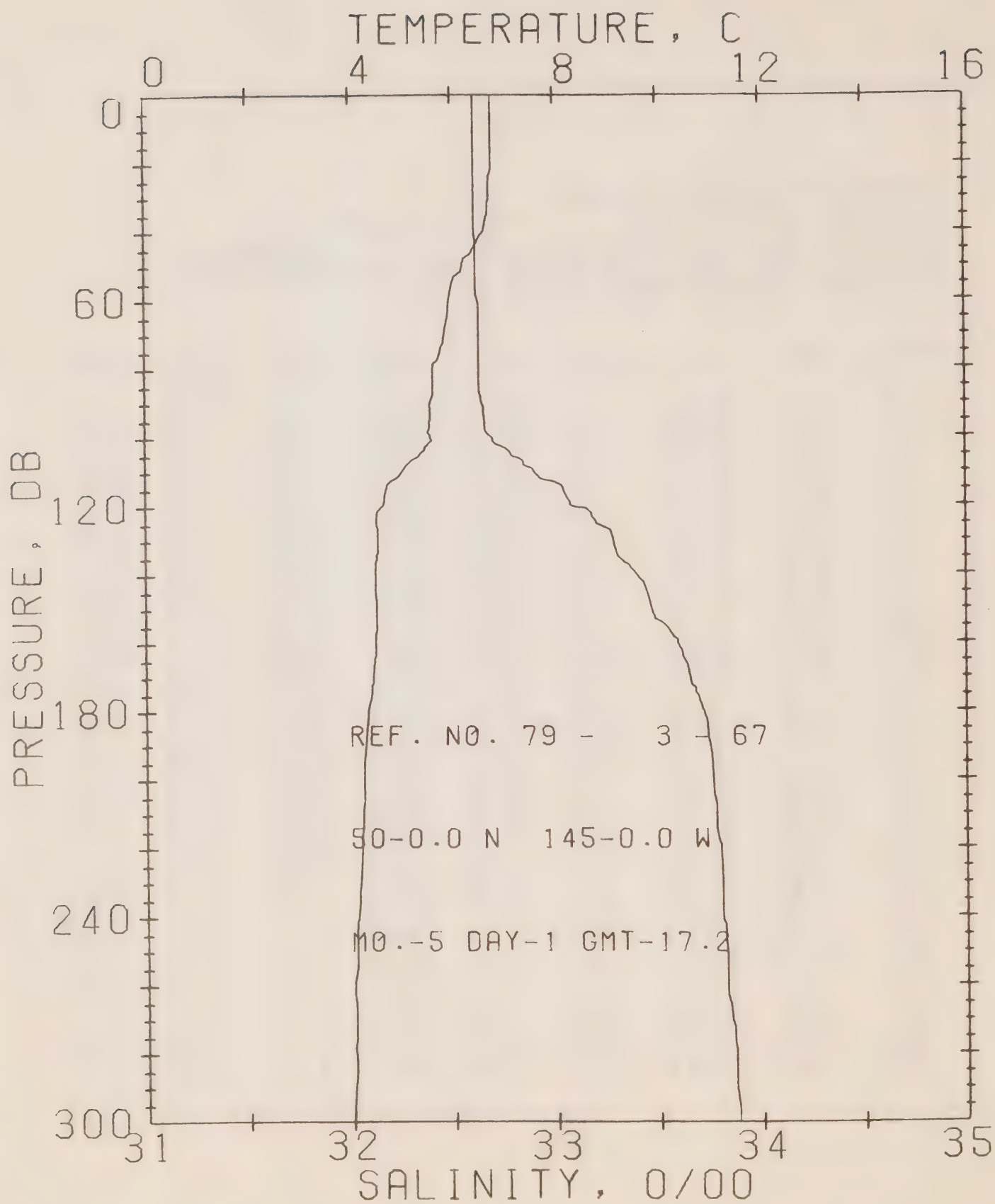
GMT 1.7

STATION W3

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.65	0	25.59	240.3	.00	.00	1476.
10	7.00	32.65	10	25.59	240.4	.24	.01	1476.
20	6.93	32.65	20	25.60	239.6	.48	.05	1476.
30	6.66	32.65	30	25.64	236.2	.72	.11	1475.
40	6.63	32.65	40	25.64	236.0	.95	.19	1475.
50	6.61	32.65	50	25.65	235.9	1.19	.30	1475.
60	6.54	32.65	60	25.65	235.2	1.43	.43	1475.
70	6.16	32.65	70	25.70	230.7	1.66	.59	1474.
80	5.96	32.67	79	25.74	226.9	1.89	.76	1473.
90	5.90	32.67	89	25.75	226.3	2.11	.96	1473.
100	5.83	32.69	99	25.77	224.1	2.34	1.18	1473.
110	5.51	32.80	109	25.90	212.3	2.56	1.41	1472.
120	4.76	33.04	119	26.17	186.2	2.76	1.65	1469.
130	4.70	33.25	129	26.35	169.9	2.94	1.88	1470.
140	4.46	33.41	139	26.50	155.5	3.10	2.10	1469.
150	4.39	33.50	149	26.58	148.1	3.25	2.32	1469.
160	4.34	33.59	159	26.65	141.2	3.40	2.55	1469.
170	4.35	33.67	169	26.72	135.1	3.53	2.78	1469.
180	4.35	33.71	179	26.75	132.0	3.67	3.02	1470.
190	4.33	33.75	189	26.78	128.8	3.80	3.27	1470.
200	4.31	33.78	199	26.81	126.7	3.93	3.52	1470.
210	4.29	33.80	209	26.82	125.4	4.05	3.78	1470.
220	4.26	33.81	218	26.84	124.1	4.18	4.06	1470.
230	4.22	33.83	228	26.86	122.3	4.30	4.34	1470.
240	4.17	33.84	238	26.87	121.1	4.42	4.63	1470.
250	4.07	33.84	248	26.88	120.2	4.54	4.93	1470.
260	4.07	33.84	258	26.88	120.3	4.66	5.25	1470.
270	3.96	33.86	268	26.91	117.7	4.78	5.57	1470.
280	4.03	33.87	278	26.91	117.8	4.90	5.90	1470.
290	4.03	33.89	288	26.92	116.3	5.02	6.24	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 66

DATE 1/ 5/79

POSITION 49-52.0N, 145- 7.0W

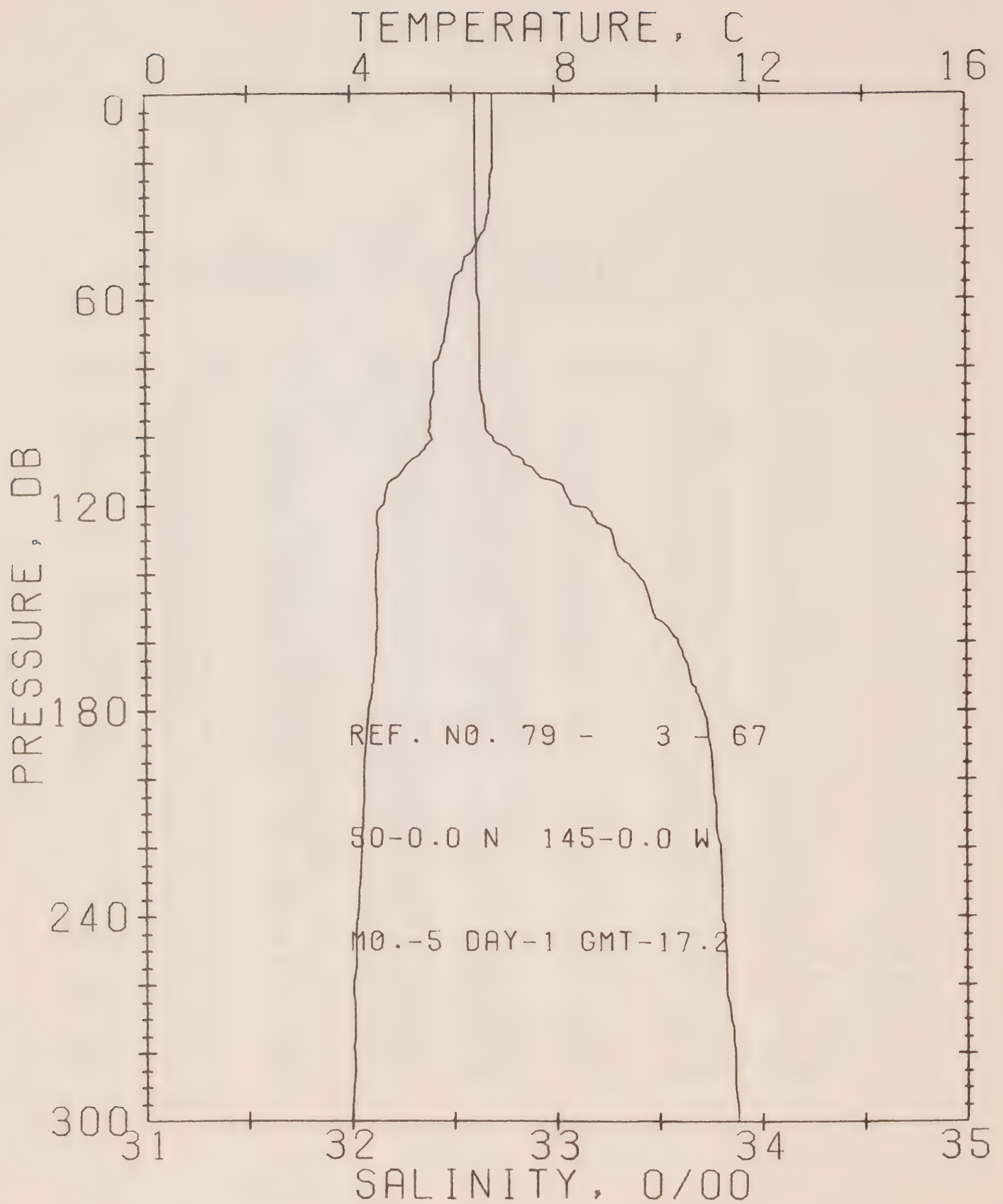
GMT 1.7

STATION W3

RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.65	0	25.59	240.3	.00	.00	1476.
10	7.00	32.65	10	25.59	240.4	.24	.01	1476.
20	6.93	32.65	20	25.60	239.6	.48	.05	1476.
30	6.66	32.65	30	25.64	236.2	.72	.11	1475.
40	6.63	32.65	40	25.64	236.0	.95	.19	1475.
50	6.61	32.65	50	25.65	235.9	1.19	.30	1475.
60	6.54	32.65	60	25.65	235.2	1.43	.43	1475.
70	6.16	32.65	70	25.70	230.7	1.66	.59	1474.
80	5.96	32.67	79	25.74	226.9	1.89	.76	1473.
90	5.90	32.67	89	25.75	226.3	2.11	.96	1473.
100	5.83	32.69	99	25.77	224.1	2.34	1.18	1473.
110	5.51	32.80	109	25.90	212.3	2.56	1.41	1472.
120	4.76	33.04	119	26.17	186.2	2.76	1.65	1469.
130	4.70	33.25	129	26.35	169.9	2.94	1.88	1470.
140	4.46	33.41	139	26.50	155.5	3.10	2.10	1469.
150	4.39	33.50	149	26.58	148.1	3.25	2.32	1469.
160	4.34	33.59	159	26.65	141.2	3.40	2.55	1469.
170	4.35	33.67	169	26.72	135.1	3.53	2.78	1469.
180	4.35	33.71	179	26.75	132.0	3.67	3.02	1470.
190	4.33	33.75	189	26.78	128.8	3.80	3.27	1470.
200	4.31	33.78	199	26.81	126.7	3.93	3.52	1470.
210	4.29	33.80	209	26.82	125.4	4.05	3.78	1470.
220	4.26	33.81	218	26.84	124.1	4.18	4.06	1470.
230	4.22	33.83	228	26.86	122.3	4.30	4.34	1470.
240	4.17	33.84	238	26.87	121.1	4.42	4.63	1470.
250	4.07	33.84	248	26.88	120.2	4.54	4.93	1470.
260	4.07	33.84	258	26.88	120.3	4.66	5.25	1470.
270	3.96	33.86	268	26.91	117.7	4.78	5.57	1470.
280	4.03	33.87	278	26.91	117.8	4.90	5.90	1470.
290	4.03	33.89	288	26.92	116.3	5.02	6.24	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 67

DATE 1/ 5/79

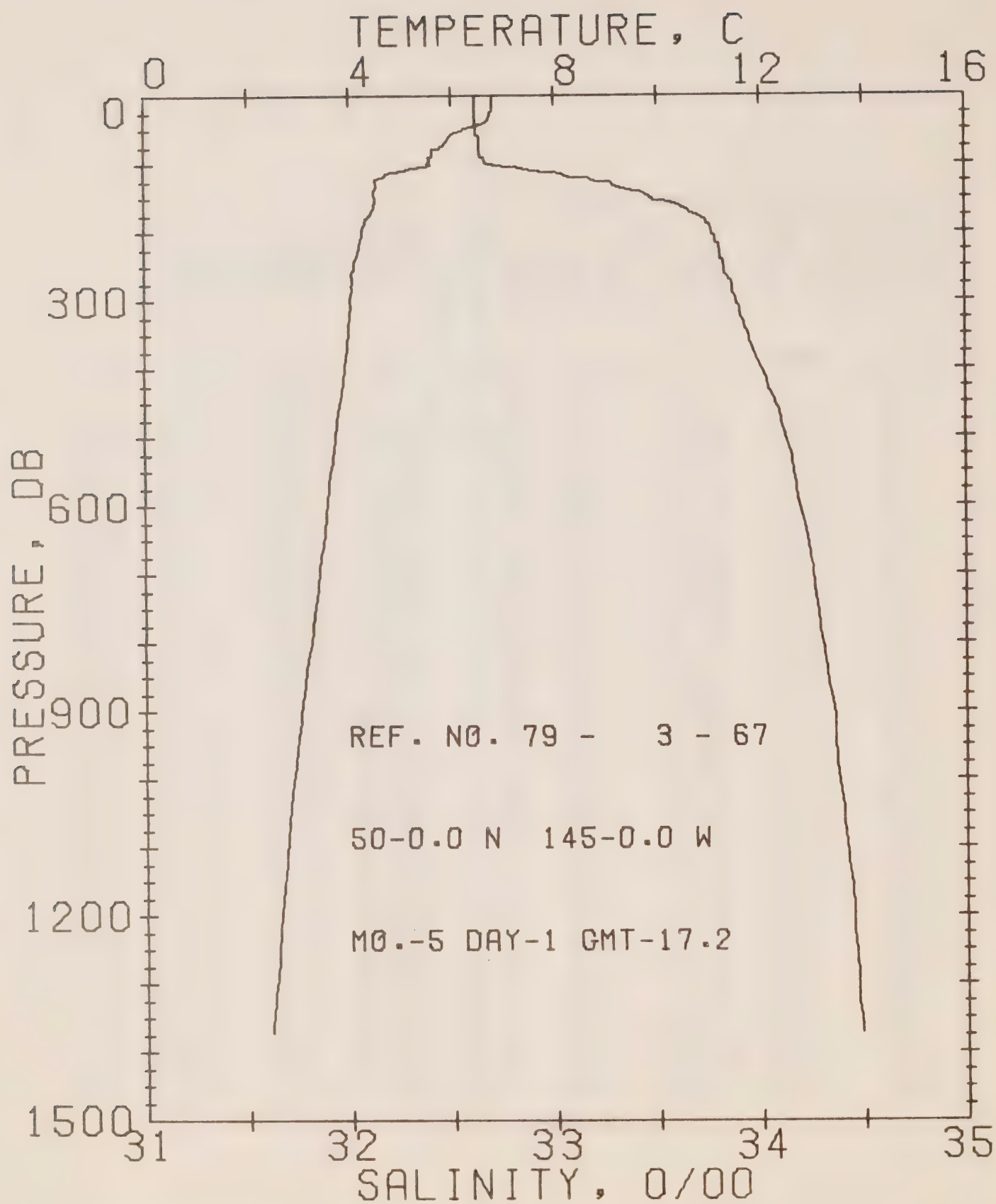
POSITION 50- .0N, 145- .0W GMT 17.2

STATION P

RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.61	0	25.59	240.8	.00	.00	1475.
10	6.80	32.61	10	25.59	240.8	.24	.01	1475.
20	6.80	32.61	20	25.59	240.9	.48	.05	1475.
30	6.74	32.61	30	25.60	240.3	.72	.11	1475.
40	6.63	32.61	40	25.61	239.0	.96	.20	1475.
50	6.21	32.62	50	25.67	233.3	1.20	.30	1474.
60	5.96	32.63	60	25.71	229.9	1.43	.43	1473.
70	5.86	32.63	70	25.72	228.6	1.66	.59	1473.
80	5.63	32.63	79	25.75	226.1	1.89	.76	1472.
90	5.56	32.64	89	25.77	224.3	2.11	.96	1472.
100	5.57	32.69	99	25.81	221.1	2.34	1.17	1472.
110	5.02	32.90	109	26.03	199.4	2.55	1.40	1470.
120	4.63	33.07	119	26.21	182.6	2.73	1.62	1469.
130	4.54	33.28	129	26.39	165.5	2.91	1.83	1469.
140	4.48	33.39	139	26.48	156.8	3.07	2.06	1469.
150	4.50	33.47	149	26.54	151.5	3.22	2.28	1469.
160	4.49	33.59	159	26.64	142.5	3.37	2.52	1470.
170	4.44	33.65	169	26.69	137.6	3.51	2.75	1470.
180	4.33	33.72	179	26.76	131.2	3.64	2.99	1469.
190	4.27	33.75	189	26.79	128.6	3.77	3.24	1469.
200	4.24	33.77	199	26.80	127.0	3.90	3.49	1469.
210	4.22	33.78	209	26.82	125.9	4.03	3.75	1470.
220	4.19	33.80	218	26.84	124.1	4.15	4.03	1470.
230	4.16	33.81	228	26.85	123.2	4.27	4.31	1470.
240	4.11	33.81	238	26.85	122.8	4.40	4.61	1470.
250	4.09	33.83	248	26.87	121.3	4.52	4.91	1470.
260	4.02	33.83	258	26.88	120.5	4.64	5.22	1470.
270	4.06	33.85	268	26.89	119.5	4.76	5.55	1470.
280	4.03	33.87	278	26.91	117.8	4.88	5.88	1470.
290	4.02	33.87	288	26.91	117.7	5.00	6.22	1470.
300	4.01	33.88	298	26.92	117.0	5.11	6.58	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 67

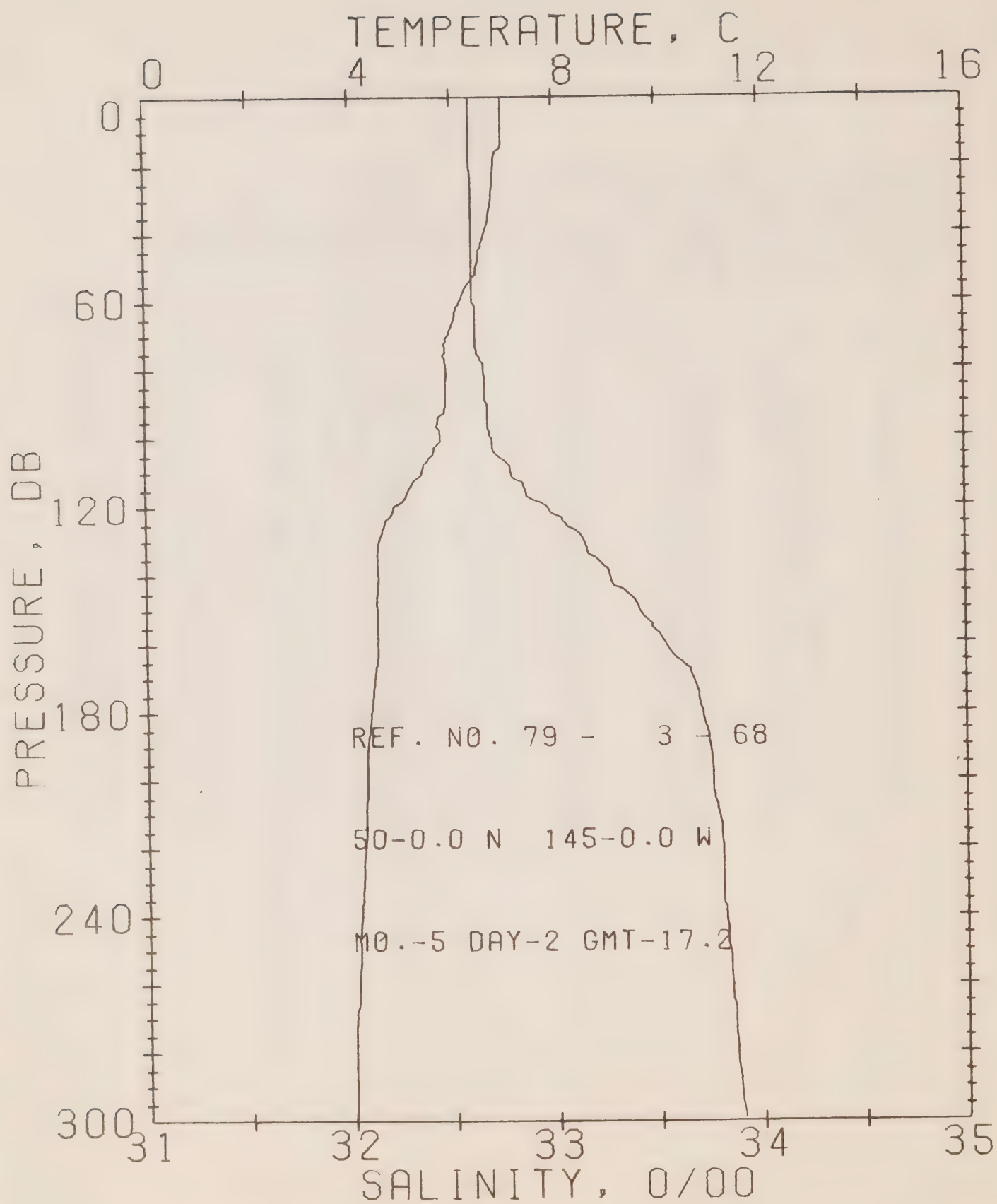
DATE 1/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 234 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.81	32.61	0	25.59	240.8	.00	.00	1475.
10	6.80	32.61	10	25.59	240.8	.24	.01	1475.
20	6.80	32.61	20	25.59	240.9	.48	.05	1475.
30	6.74	32.61	30	25.60	240.3	.72	.11	1475.
50	6.21	32.62	50	25.67	233.3	1.20	.30	1474.
75	5.77	32.63	75	25.73	227.7	1.77	.67	1472.
100	5.57	32.69	99	25.81	221.1	2.34	1.17	1472.
125	4.50	33.20	124	26.33	171.5	2.82	1.73	1469.
150	4.50	33.47	149	26.54	151.5	3.22	2.28	1469.
175	4.39	33.69	174	26.73	134.1	3.58	2.87	1470.
200	4.24	33.77	199	26.80	127.0	3.90	3.49	1469.
225	4.18	33.80	223	26.84	123.7	4.21	4.17	1470.
250	4.09	33.83	248	26.87	121.3	4.52	4.91	1470.
300	4.01	33.88	298	26.92	117.0	5.11	6.58	1470.
400	3.90	34.00	397	27.03	107.3	6.24	10.58	1472.
500	3.70	34.12	496	27.14	97.4	7.26	15.25	1473.
600	3.55	34.19	595	27.21	91.6	8.20	20.52	1474.
800	3.21	34.30	793	27.33	80.7	9.92	32.74	1476.
1000	2.87	34.38	990	27.43	72.6	11.44	46.69	1478.
1200	2.62	34.45	1188	27.50	65.9	12.82	62.16	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 68

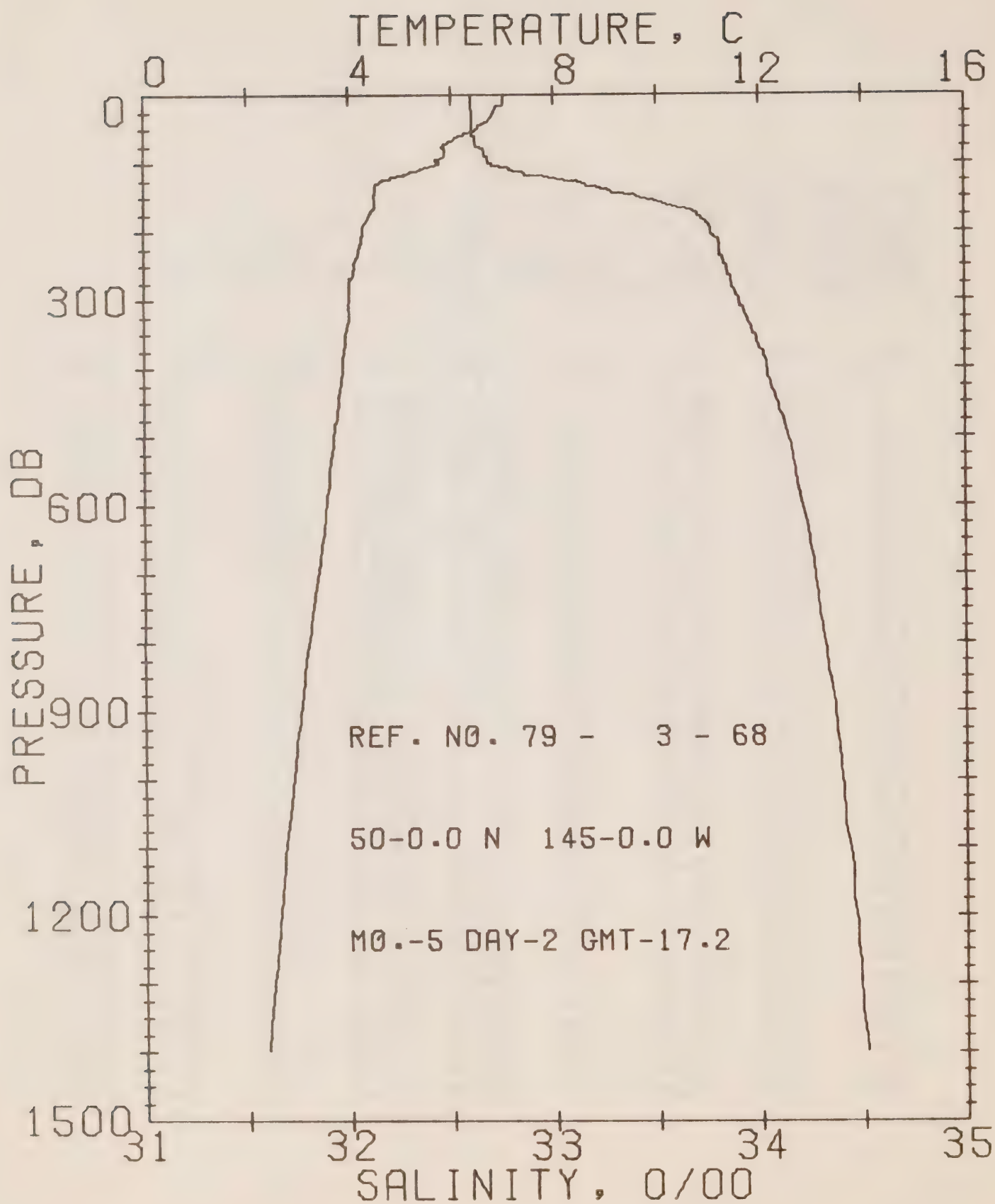
DATE 2/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.59	0	25.55	244.8	.00	.00	1476.
10	7.01	32.59	10	25.55	244.9	.24	.01	1476.
20	6.85	32.59	20	25.57	243.0	.49	.05	1476.
30	6.80	32.60	30	25.58	241.8	.73	.11	1476.
40	6.66	32.60	40	25.60	240.1	.97	.20	1475.
50	6.49	32.60	50	25.62	238.2	1.21	.31	1475.
60	6.16	32.60	60	25.66	234.3	1.45	.44	1474.
70	5.91	32.61	70	25.70	230.7	1.68	.59	1473.
80	5.90	32.65	79	25.73	227.7	1.91	.77	1473.
90	5.86	32.67	89	25.75	225.9	2.14	.96	1473.
100	5.75	32.69	99	25.78	223.2	2.36	1.18	1473.
110	5.39	32.78	109	25.90	212.1	2.58	1.42	1471.
120	4.84	32.96	119	26.10	193.0	2.78	1.66	1470.
130	4.54	33.14	129	26.28	176.5	2.97	1.89	1469.
140	4.52	33.26	139	26.38	167.0	3.14	2.13	1469.
150	4.50	33.41	149	26.49	156.0	3.30	2.37	1469.
160	4.51	33.53	159	26.59	147.2	3.45	2.60	1470.
170	4.44	33.66	169	26.70	136.5	3.59	2.84	1470.
180	4.36	33.71	179	26.75	132.3	3.73	3.08	1470.
190	4.29	33.74	189	26.78	129.0	3.86	3.33	1469.
200	4.27	33.76	199	26.80	127.8	3.99	3.58	1470.
210	4.25	33.79	209	26.82	125.6	4.11	3.85	1470.
220	4.22	33.81	218	26.84	123.7	4.24	4.12	1470.
230	4.18	33.81	228	26.85	123.3	4.36	4.40	1470.
240	4.12	33.82	238	26.86	122.1	4.48	4.70	1470.
250	4.11	33.84	248	26.87	120.8	4.61	5.00	1470.
260	4.08	33.85	258	26.89	119.6	4.73	5.31	1470.
270	4.02	33.86	268	26.90	118.3	4.85	5.64	1470.
280	4.00	33.87	278	26.91	117.5	4.96	5.97	1470.
290	4.01	33.88	288	26.92	116.6	5.08	6.31	1470.
300	3.99	33.90	298	26.94	115.2	5.20	6.65	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 68

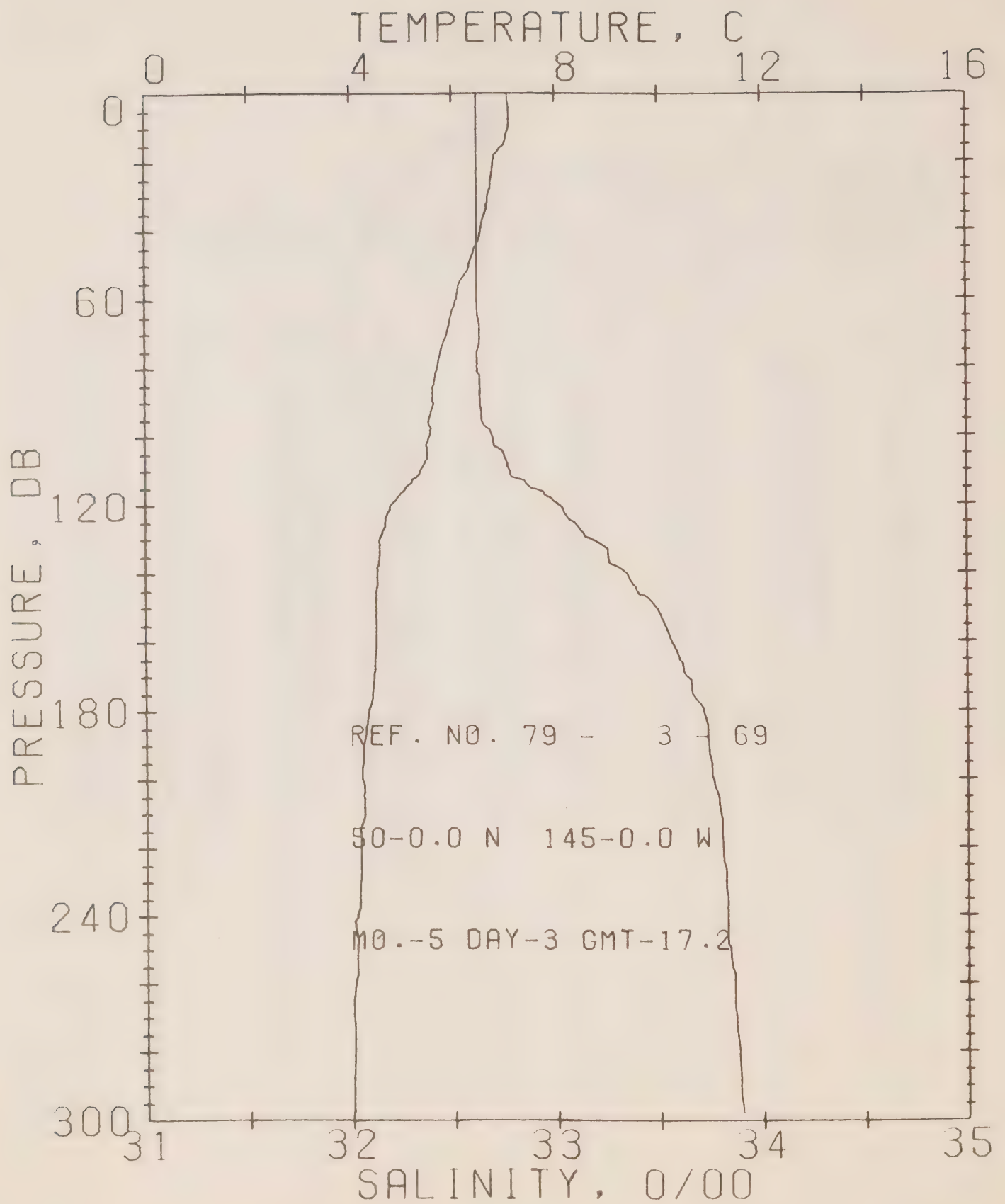
DATE 2/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 255 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.01	32.59	0	25.55	244.8	.00	.00	1476.
10	7.01	32.59	10	25.55	244.9	.24	.01	1476.
20	6.85	32.59	20	25.57	243.0	.49	.05	1476.
30	6.80	32.60	30	25.58	241.8	.73	.11	1476.
50	6.49	32.60	50	25.62	238.2	1.21	.31	1475.
75	5.86	32.62	75	25.72	229.4	1.79	.68	1473.
100	5.75	32.69	99	25.78	223.2	2.36	1.18	1473.
125	4.64	33.05	124	26.19	184.2	2.88	1.77	1469.
150	4.50	33.41	149	26.49	156.0	3.30	2.37	1469.
175	4.40	33.69	174	26.73	134.2	3.66	2.96	1470.
200	4.27	33.76	199	26.80	127.8	3.99	3.58	1470.
225	4.20	33.81	223	26.84	123.5	4.30	4.26	1470.
250	4.11	33.84	248	26.87	120.8	4.61	5.00	1470.
300	3.99	33.90	298	26.94	115.2	5.20	6.65	1470.
400	3.87	34.03	397	27.06	104.7	6.29	10.56	1472.
500	3.70	34.14	496	27.15	96.1	7.30	15.17	1473.
600	3.55	34.20	595	27.22	90.4	8.23	20.38	1474.
800	3.18	34.31	793	27.34	79.7	9.93	32.44	1476.
1000	2.88	34.40	990	27.44	71.5	11.43	46.22	1478.
1200	2.60	34.46	1188	27.51	64.7	12.79	61.46	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 69

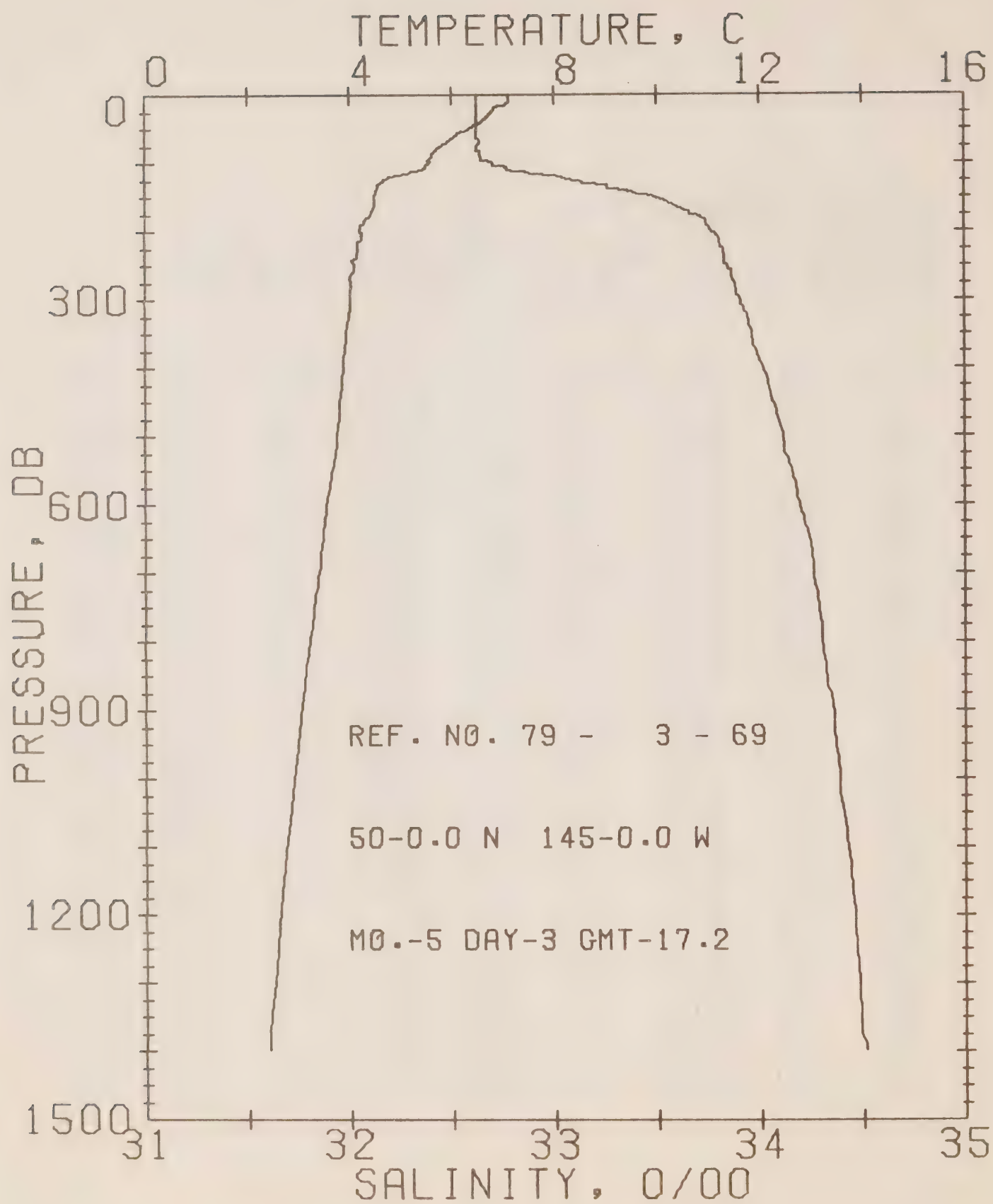
DATE 3/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.09	32.62	0	25.56	243.6	.00	.00	1476.
10	7.11	32.62	10	25.56	244.0	.24	.01	1477.
20	6.81	32.62	20	25.60	240.3	.49	.05	1475.
30	6.70	32.62	30	25.61	239.0	.73	.11	1475.
40	6.56	32.62	40	25.63	237.4	.96	.20	1475.
50	6.33	32.62	50	25.66	234.7	1.20	.30	1474.
60	6.09	32.62	60	25.69	232.0	1.43	.43	1473.
70	5.88	32.63	70	25.72	228.9	1.66	.59	1473.
80	5.70	32.62	79	25.73	227.6	1.89	.76	1472.
90	5.60	32.63	89	25.75	225.8	2.12	.96	1472.
100	5.55	32.69	99	25.81	220.9	2.34	1.17	1472.
110	5.36	32.78	109	25.90	212.1	2.56	1.41	1471.
120	4.81	33.02	119	26.15	188.2	2.76	1.64	1470.
130	4.57	33.17	129	26.30	174.5	2.94	1.87	1469.
140	4.52	33.35	139	26.44	160.6	3.11	2.10	1469.
150	4.48	33.49	149	26.56	149.8	3.27	2.33	1469.
160	4.47	33.56	159	26.62	144.5	3.41	2.57	1469.
170	4.44	33.63	169	26.67	139.1	3.55	2.80	1470.
180	4.33	33.71	179	26.75	132.0	3.69	3.05	1469.
190	4.23	33.74	189	26.78	129.0	3.82	3.29	1469.
200	4.20	33.76	199	26.80	127.1	3.95	3.55	1469.
210	4.23	33.80	209	26.83	124.7	4.07	3.81	1470.
220	4.16	33.81	218	26.84	123.3	4.20	4.08	1470.
230	4.15	33.82	228	26.86	122.3	4.32	4.36	1470.
240	4.08	33.83	238	26.87	120.9	4.44	4.65	1470.
250	4.09	33.84	248	26.88	120.4	4.56	4.96	1470.
260	4.05	33.86	258	26.90	118.5	4.68	5.27	1470.
270	4.00	33.87	268	26.91	117.4	4.80	5.59	1470.
280	4.02	33.88	278	26.92	116.9	4.92	5.91	1470.
290	4.01	33.89	288	26.93	116.1	5.03	6.25	1470.
300	4.01	33.90	298	26.94	115.1	5.15	6.60	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 69

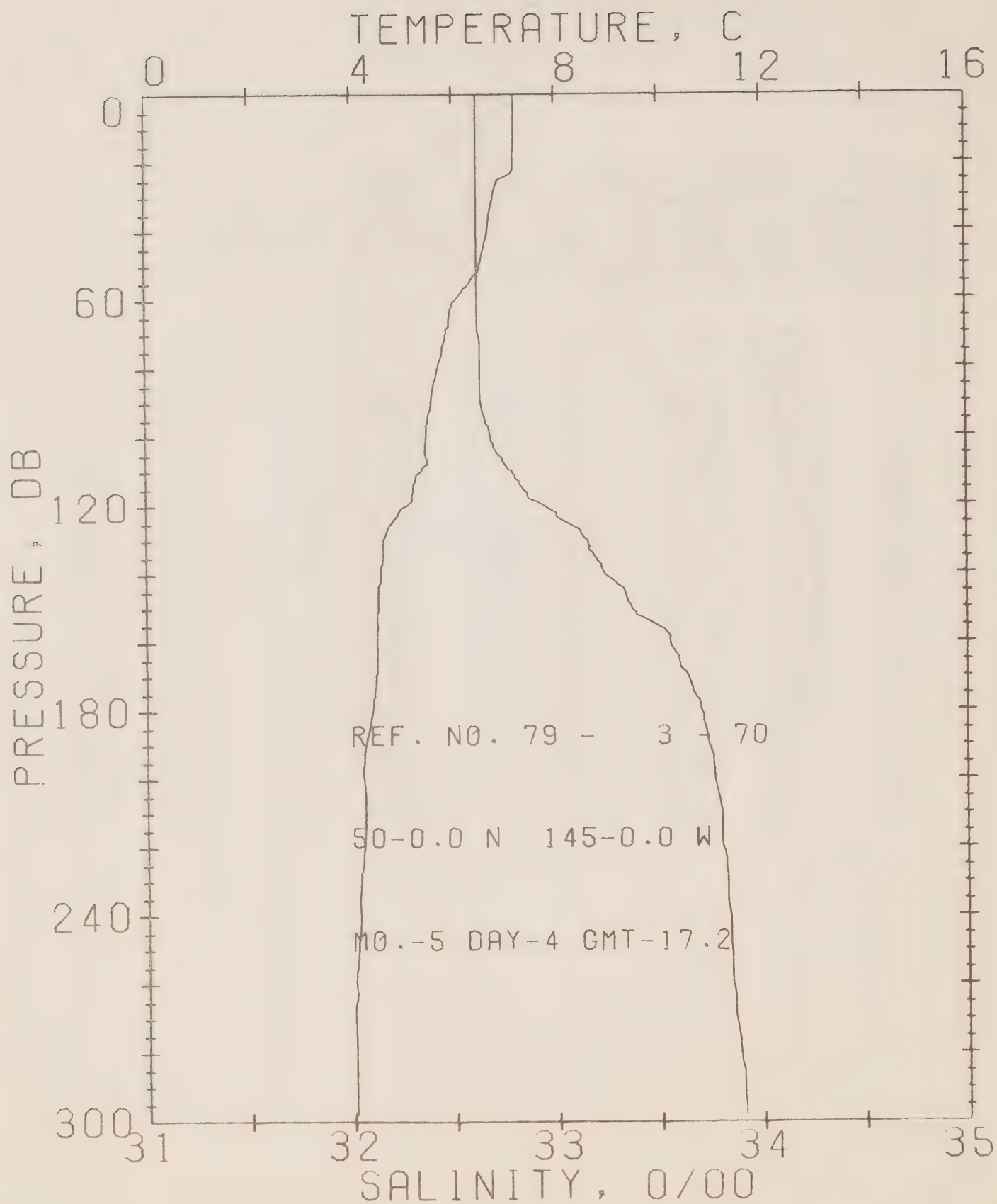
DATE 3/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 266 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED. PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.09	32.62	0	25.56	243.6	.00	.00	1476.
10	7.11	32.62	10	25.56	244.0	.24	.01	1477.
20	6.81	32.62	20	25.60	240.3	.49	.05	1475.
30	6.70	32.62	30	25.61	239.0	.73	.11	1475.
50	6.33	32.62	50	25.66	234.7	1.20	.30	1474.
75	5.77	32.62	75	25.73	228.4	1.78	.67	1472.
100	5.55	32.69	99	25.81	220.9	2.34	1.17	1472.
125	4.67	33.09	124	26.22	181.5	2.85	1.76	1469.
150	4.48	33.49	149	26.56	149.8	3.27	2.33	1469.
175	4.41	33.66	174	26.70	136.5	3.62	2.93	1470.
200	4.20	33.76	199	26.80	127.1	3.95	3.55	1469.
225	4.16	33.82	223	26.85	122.8	4.26	4.22	1470.
250	4.09	33.84	248	26.88	120.4	4.56	4.96	1470.
300	4.01	33.90	298	26.94	115.1	5.15	6.60	1470.
400	3.86	34.01	397	27.04	106.3	6.26	10.54	1471.
500	3.73	34.11	496	27.13	98.5	7.28	15.22	1473.
600	3.53	34.19	595	27.21	91.1	8.23	20.54	1474.
800	3.19	34.30	793	27.33	80.6	9.93	32.63	1476.
1000	2.88	34.39	990	27.43	72.0	11.45	46.54	1478.
1200	2.61	34.46	1188	27.51	65.1	12.82	61.87	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 70

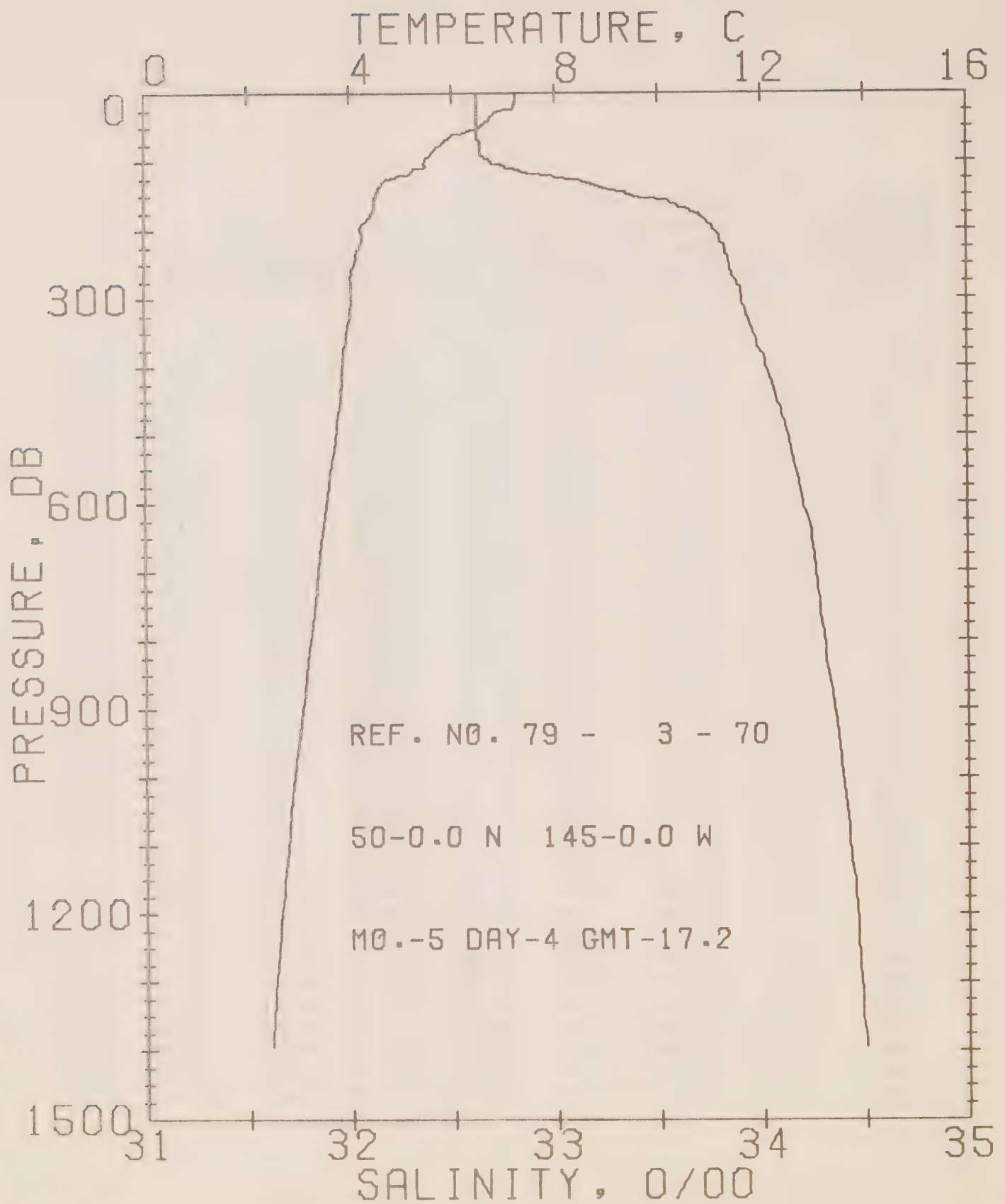
DATE 4/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.22	32.62	0	25.54	245.3	.00	.00	1477.
10	7.22	32.62	10	25.54	245.4	.25	.01	1477.
20	7.20	32.62	20	25.54	245.3	.49	.05	1477.
30	6.81	32.62	30	25.60	240.4	.73	.11	1476.
40	6.71	32.62	40	25.61	239.2	.97	.20	1475.
50	6.54	32.62	50	25.63	237.3	1.21	.31	1475.
60	6.04	32.62	60	25.69	231.4	1.45	.44	1473.
70	5.87	32.62	70	25.72	229.2	1.68	.59	1473.
80	5.69	32.63	79	25.74	226.8	1.90	.76	1472.
90	5.56	32.63	89	25.76	225.1	2.13	.96	1472.
100	5.46	32.68	99	25.81	220.6	2.35	1.18	1471.
110	5.36	32.79	109	25.91	211.4	2.57	1.41	1471.
120	5.08	32.94	119	26.06	197.1	2.78	1.65	1471.
130	4.62	33.15	129	26.28	176.5	2.96	1.89	1469.
140	4.56	33.23	139	26.35	170.0	3.14	2.12	1469.
150	4.50	33.37	149	26.46	159.0	3.30	2.37	1469.
160	4.48	33.55	159	26.61	145.4	3.45	2.60	1470.
170	4.45	33.64	169	26.68	138.4	3.59	2.84	1470.
180	4.38	33.70	179	26.74	132.9	3.73	3.09	1470.
190	4.24	33.74	189	26.78	128.9	3.86	3.33	1469.
200	4.21	33.77	199	26.81	126.4	3.99	3.58	1469.
210	4.23	33.80	209	26.83	124.5	4.11	3.85	1470.
220	4.21	33.80	218	26.84	124.0	4.23	4.12	1470.
230	4.13	33.83	228	26.87	121.4	4.36	4.40	1470.
240	4.12	33.84	238	26.87	120.6	4.48	4.69	1470.
250	4.08	33.85	248	26.88	119.7	4.60	4.99	1470.
260	4.02	33.85	258	26.89	118.9	4.72	5.30	1470.
270	4.00	33.86	268	26.91	117.9	4.84	5.62	1470.
280	4.02	33.89	278	26.92	116.5	4.95	5.95	1470.
290	4.03	33.90	288	26.93	115.6	5.07	6.29	1470.
300	4.02	33.91	298	26.94	114.8	5.18	6.63	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 70

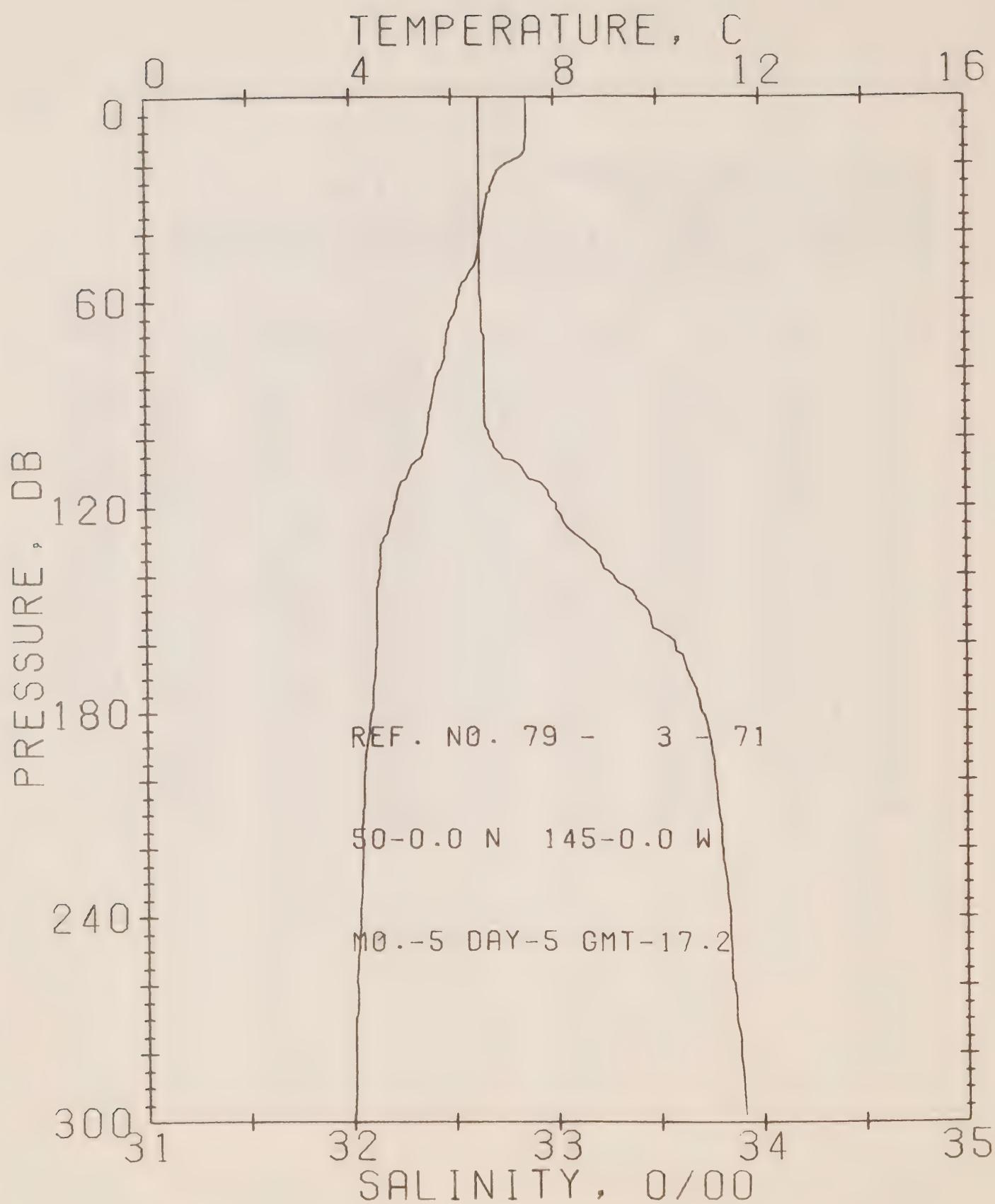
DATE 4/ 5/79

POSITION 50- 30N, 145- 00W GMT 17.2 STATION P

RESULTS OF STP CAST 227 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.22	32.62	0	25.54	245.3	.00	.00	1477.
10	7.22	32.62	10	25.54	245.4	.25	.01	1477.
20	7.20	32.62	20	25.54	245.3	.49	.05	1477.
30	6.81	32.62	30	25.60	240.4	.73	.11	1476.
50	6.54	32.62	50	25.63	237.3	1.21	.31	1475.
75	5.79	32.63	75	25.73	227.8	1.79	.68	1472.
100	5.46	32.68	99	25.81	220.6	2.35	1.18	1471.
125	4.78	33.05	124	26.18	185.7	2.87	1.77	1470.
150	4.50	33.37	149	26.46	159.0	3.30	2.37	1469.
175	4.43	33.67	174	26.71	136.0	3.66	2.96	1470.
200	4.21	33.77	199	26.81	126.4	3.99	3.58	1469.
225	4.18	33.82	223	26.85	122.6	4.30	4.26	1470.
250	4.08	33.85	248	26.88	119.7	4.60	4.99	1470.
300	4.02	33.91	298	26.94	114.8	5.18	6.63	1470.
400	3.85	34.02	397	27.05	105.6	6.29	10.56	1471.
500	3.72	34.12	496	27.14	97.2	7.30	15.21	1473.
600	3.53	34.20	595	27.22	90.4	8.24	20.46	1474.
800	3.20	34.30	793	27.33	80.5	9.94	32.56	1476.
1000	2.87	34.39	990	27.43	72.1	11.47	46.51	1478.
1200	2.62	34.46	1168	27.51	65.3	12.83	61.84	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 71

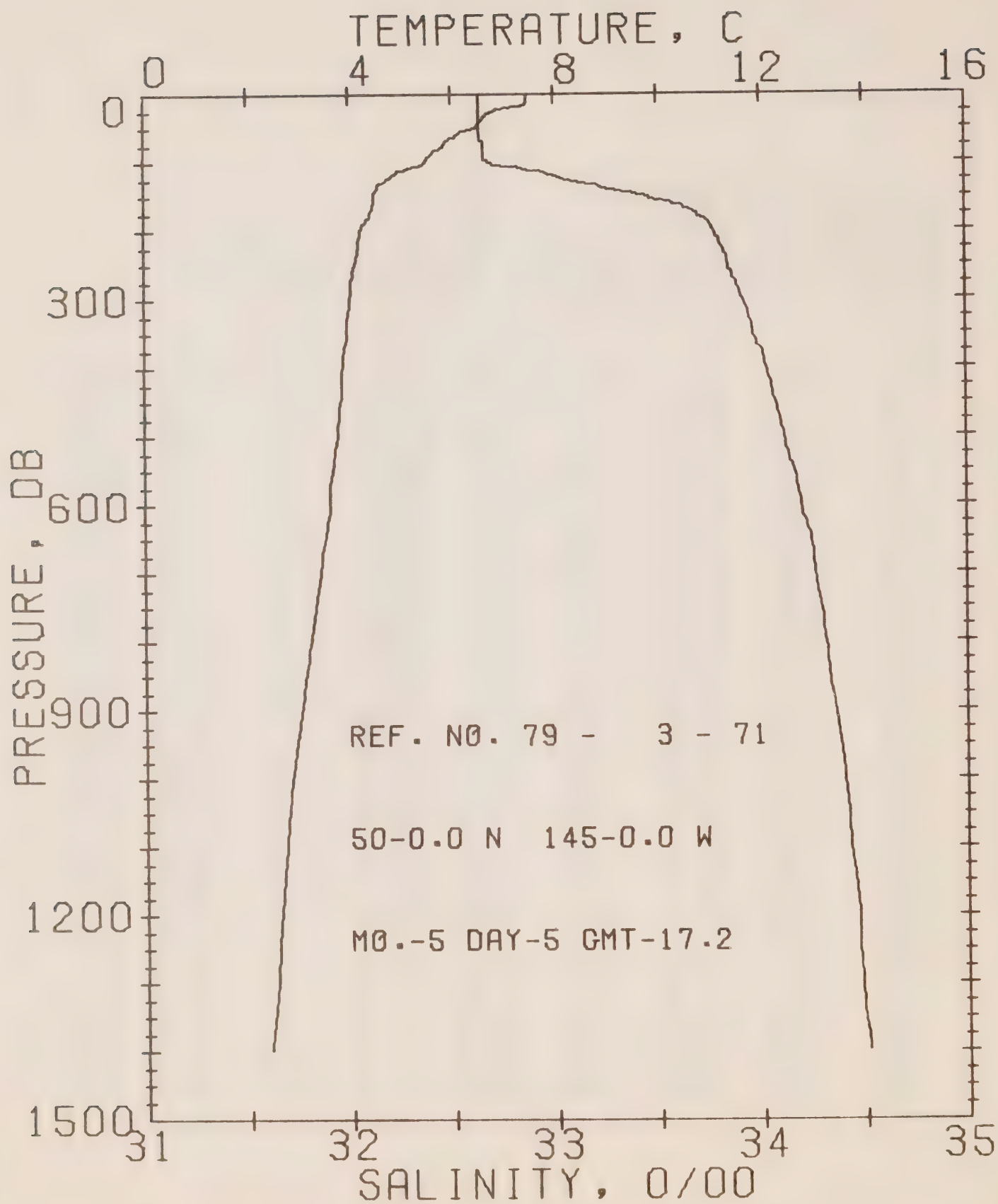
DATE 5/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.47	32.63	0	25.51	247.8	.00	.00	1478.
10	7.46	32.63	10	25.52	247.8	.25	.01	1478.
20	7.05	32.63	20	25.57	242.6	.49	.05	1476.
30	6.69	32.63	30	25.62	238.1	.73	.11	1475.
40	6.56	32.63	40	25.64	236.7	.97	.20	1475.
50	6.43	32.63	50	25.65	235.2	1.21	.30	1474.
60	6.09	32.64	60	25.70	230.5	1.44	.43	1473.
70	5.86	32.65	70	25.74	227.1	1.67	.59	1473.
80	5.76	32.65	79	25.75	226.1	1.90	.76	1472.
90	5.58	32.65	89	25.77	224.1	2.12	.95	1472.
100	5.46	32.68	99	25.81	220.6	2.34	1.17	1471.
110	5.12	32.85	109	25.98	204.2	2.56	1.40	1470.
120	4.83	33.00	119	26.13	189.9	2.75	1.63	1470.
130	4.62	33.14	129	26.27	177.3	2.94	1.86	1469.
140	4.53	33.28	139	26.39	165.9	3.11	2.10	1469.
150	4.49	33.45	149	26.53	152.9	3.27	2.34	1469.
160	4.47	33.57	159	26.63	143.4	3.42	2.57	1470.
170	4.44	33.65	169	26.69	137.3	3.56	2.81	1470.
180	4.37	33.71	179	26.75	132.4	3.69	3.05	1470.
190	4.27	33.75	189	26.79	128.5	3.82	3.29	1469.
200	4.22	33.77	199	26.81	126.2	3.95	3.54	1469.
210	4.20	33.79	209	26.83	124.7	4.08	3.81	1469.
220	4.18	33.81	218	26.84	123.3	4.20	4.08	1470.
230	4.16	33.83	228	26.86	121.7	4.32	4.36	1470.
240	4.14	33.84	238	26.87	120.8	4.44	4.65	1470.
250	4.10	33.85	248	26.89	119.7	4.56	4.95	1470.
260	4.06	33.86	258	26.90	118.7	4.68	5.26	1470.
270	4.02	33.87	268	26.91	117.6	4.80	5.58	1470.
280	4.02	33.89	278	26.92	116.2	4.92	5.91	1470.
290	4.02	33.90	288	26.93	115.5	5.03	6.24	1470.
300	4.00	33.91	298	26.95	114.3	5.15	6.59	1470.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 71

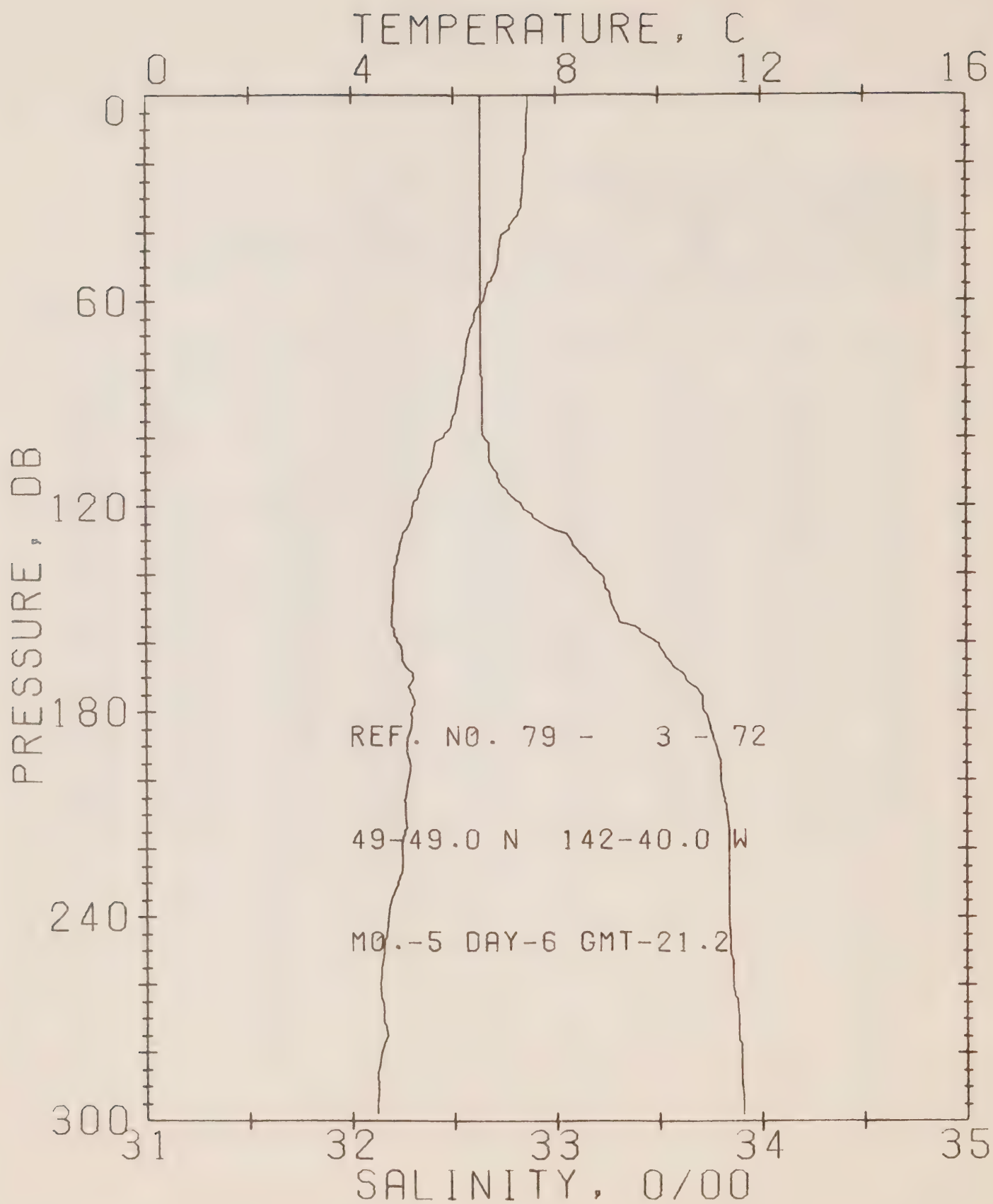
DATE 5/ 5/79

POSITION 50- .0N, 145- .0W GMT 17.2 STATION P

RESULTS OF STP CAST 247 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.47	32.63	0	25.51	247.8	.00	.00	1478.
10	7.46	32.63	10	25.52	247.8	.25	.01	1478.
20	7.05	32.63	20	25.57	242.6	.49	.05	1476.
30	6.69	32.63	30	25.62	238.1	.73	.11	1475.
50	6.43	32.63	50	25.65	235.2	1.21	.30	1474.
75	5.84	32.65	75	25.74	227.0	1.78	.67	1473.
100	5.46	32.68	99	25.81	220.6	2.34	1.17	1471.
125	4.75	33.04	124	26.18	186.1	2.85	1.75	1469.
150	4.49	33.45	149	26.53	152.9	3.27	2.34	1469.
175	4.41	33.68	174	26.72	134.6	3.63	2.93	1470.
200	4.22	33.77	199	26.81	126.2	3.95	3.54	1469.
225	4.17	33.82	223	26.85	122.9	4.26	4.22	1470.
250	4.10	33.85	248	26.89	119.7	4.56	4.95	1470.
300	4.00	33.91	298	26.95	114.3	5.15	6.59	1470.
400	3.86	34.02	397	27.05	105.4	6.25	10.49	1471.
500	3.75	34.11	496	27.13	98.5	7.26	15.16	1473.
600	3.60	34.19	595	27.21	91.8	8.21	20.47	1474.
800	3.21	34.31	793	27.34	79.9	9.92	32.60	1476.
1000	2.84	34.40	990	27.44	70.9	11.42	46.36	1478.
1200	2.61	34.47	1188	27.52	64.4	12.77	61.48	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 72

DATE 6/ 5/79

POSITION 49-49.0N, 142-40.0W

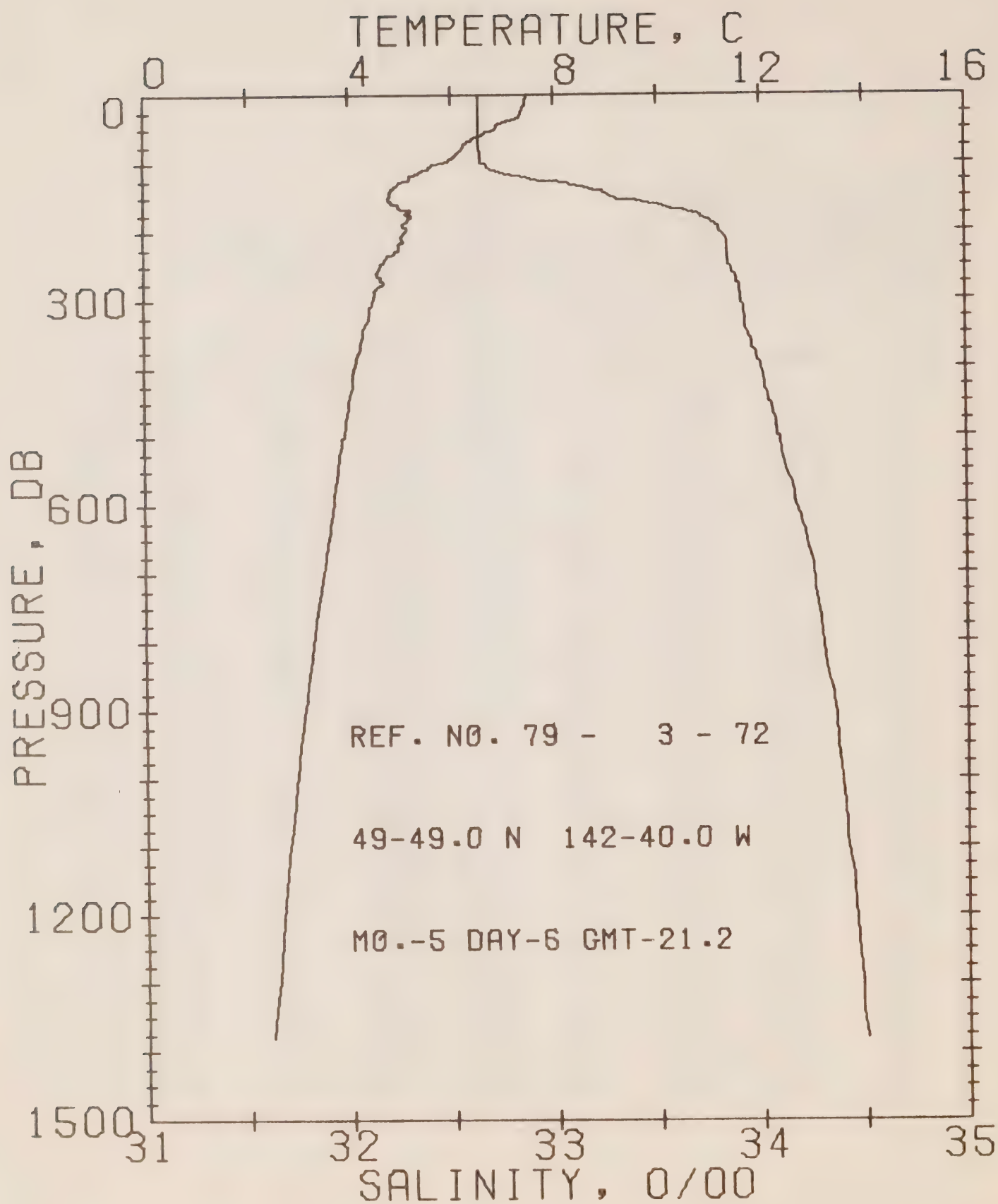
GMT 21.2

STATION 12

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.46	32.63	0	25.52	247.7	.00	.00	1478.
10	7.45	32.63	10	25.52	247.7	.25	.01	1478.
20	7.40	32.63	20	25.52	247.2	.50	.05	1478.
30	7.34	32.63	30	25.53	246.5	.74	.11	1478.
40	7.00	32.63	40	25.58	242.2	.99	.20	1477.
50	6.85	32.63	50	25.60	240.4	1.23	.31	1476.
60	6.59	32.63	60	25.63	237.3	1.47	.45	1475.
70	6.30	32.63	70	25.67	233.9	1.70	.60	1474.
80	6.19	32.63	79	25.68	232.7	1.93	.78	1474.
90	6.05	32.64	89	25.71	230.3	2.17	.98	1474.
100	5.79	32.65	99	25.75	226.6	2.40	1.20	1473.
110	5.48	32.71	109	25.83	218.7	2.62	1.44	1472.
120	5.18	32.84	119	25.96	206.1	2.83	1.69	1471.
130	4.96	33.07	129	26.18	186.2	3.03	1.94	1470.
140	4.82	33.22	139	26.31	173.5	3.21	2.19	1470.
150	4.78	33.28	149	26.36	168.7	3.38	2.44	1470.
160	4.91	33.50	159	26.52	153.7	3.54	2.70	1471.
170	5.19	33.62	169	26.59	147.6	3.69	2.95	1473.
180	5.16	33.72	179	26.67	140.2	3.84	3.21	1473.
190	5.08	33.78	189	26.72	135.0	3.97	3.47	1473.
200	5.10	33.80	199	26.74	133.9	4.11	3.73	1473.
210	5.05	33.83	209	26.77	130.9	4.24	4.01	1473.
220	4.97	33.84	218	26.78	129.6	4.37	4.29	1473.
230	4.87	33.84	228	26.79	128.6	4.50	4.59	1473.
240	4.70	33.84	238	26.81	126.8	4.63	4.90	1472.
250	4.62	33.85	248	26.83	125.2	4.75	5.21	1472.
260	4.54	33.86	258	26.85	123.7	4.88	5.53	1472.
270	4.62	33.89	268	26.86	122.4	5.00	5.86	1472.
280	4.57	33.90	278	26.87	121.3	5.12	6.21	1472.
290	4.51	33.90	288	26.88	120.5	5.24	6.56	1472.
300	4.46	33.91	298	26.89	119.5	5.36	6.92	1472.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 72

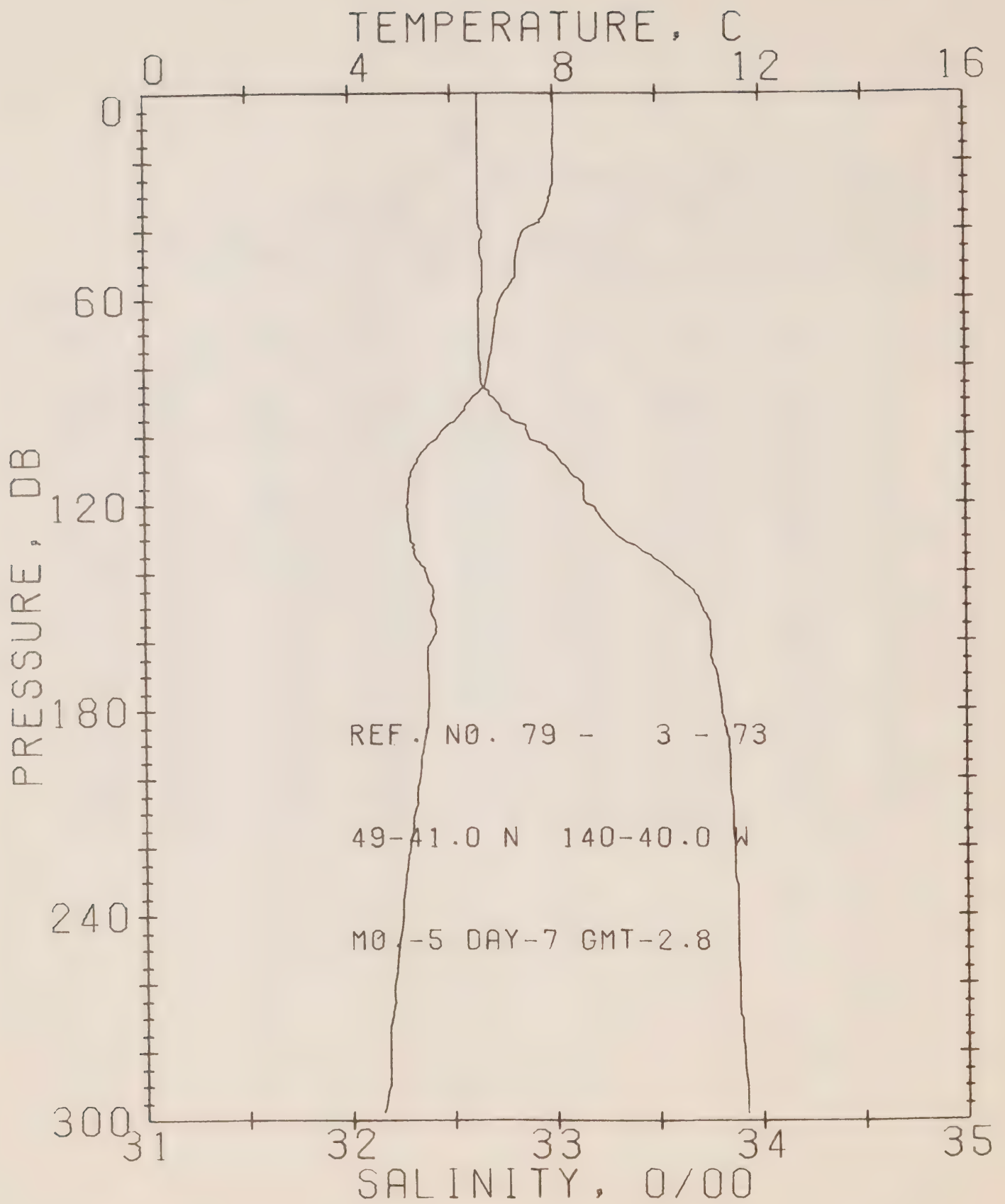
DATE 6/ 5/79

POSITION 49-49.0N, 142-40.0W GMT 21.2 STATION 12

RESULTS OF STP CAST 251 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.46	32.63	0	25.52	247.7	.00	.00	1478.
10	7.45	32.63	10	25.52	247.7	.25	.01	1478.
20	7.40	32.63	20	25.52	247.2	.50	.05	1478.
30	7.34	32.63	30	25.53	246.5	.74	.11	1478.
50	6.85	32.63	50	25.60	240.4	1.23	.31	1476.
75	6.25	32.63	75	25.68	233.3	1.82	.69	1474.
100	5.79	32.65	99	25.75	226.6	2.40	1.20	1473.
125	5.12	32.94	124	26.05	197.6	2.93	1.82	1471.
150	4.78	33.28	149	26.36	168.7	3.38	2.44	1470.
175	5.16	33.71	174	26.66	141.0	3.76	3.08	1473.
200	5.10	33.80	199	26.74	133.9	4.11	3.73	1473.
225	4.98	33.84	223	26.78	129.7	4.43	4.44	1473.
250	4.62	33.85	248	26.83	125.2	4.75	5.21	1472.
300	4.46	33.91	298	26.89	119.5	5.36	6.92	1472.
400	4.09	34.00	397	27.01	109.6	6.51	11.02	1472.
500	3.88	34.08	496	27.09	102.1	7.57	15.86	1473.
600	3.66	34.17	595	27.18	94.3	8.55	21.35	1474.
800	3.26	34.30	793	27.32	81.5	10.29	33.71	1476.
1000	2.93	34.39	990	27.43	72.5	11.82	47.73	1478.
1200	2.65	34.45	1188	27.50	66.1	13.21	63.25	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 73

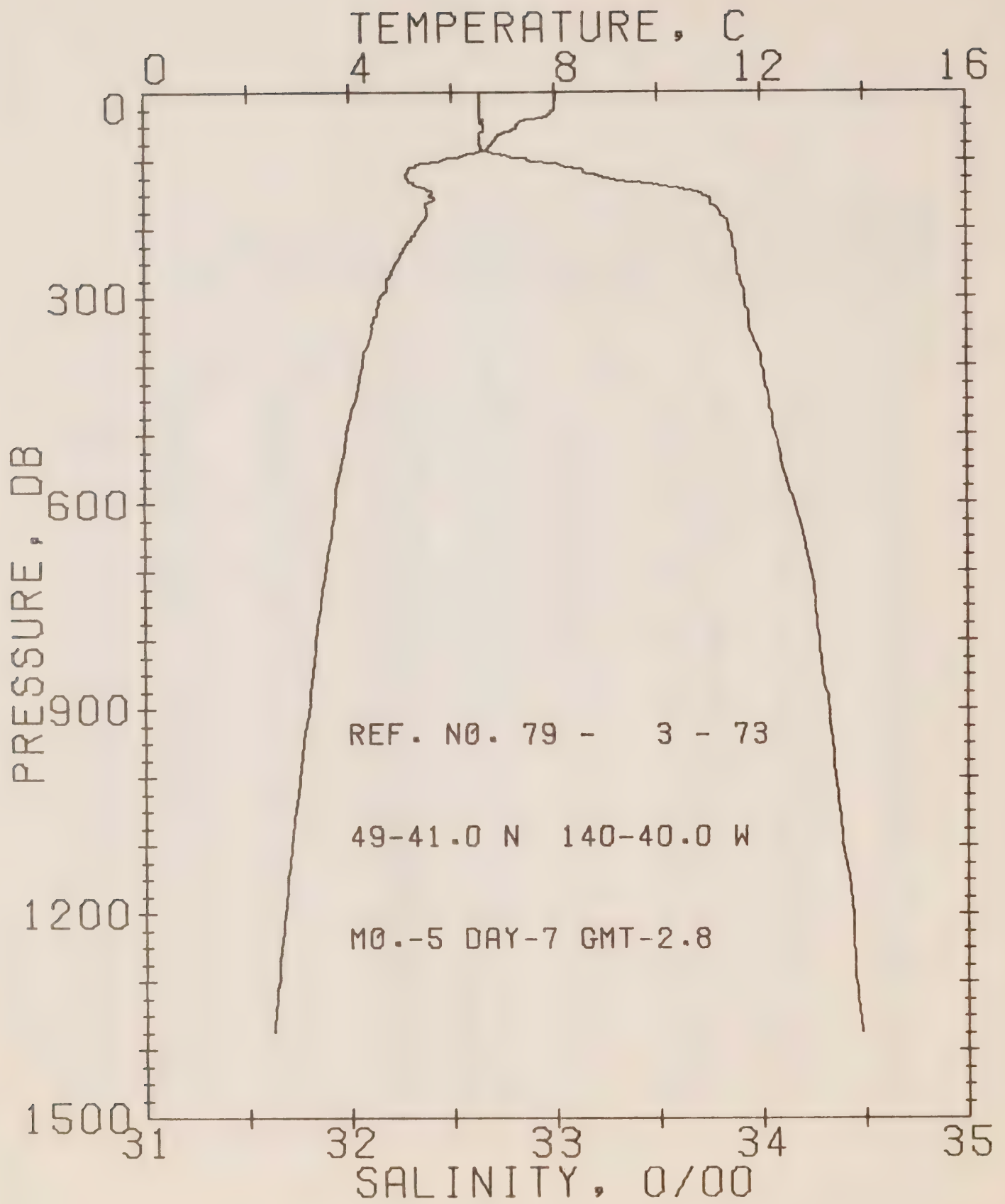
DATE 7/ 5/79

POSITION 49-41.0N, 140-40.0W GMT 2.8 STATION 11

RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.03	32.63	0	25.43	255.4	.00	.00	1480.
10	8.03	32.63	10	25.43	255.5	.26	.01	1480.
20	8.01	32.63	20	25.44	255.4	.51	.05	1480.
30	7.95	32.63	30	25.45	254.7	.77	.12	1480.
40	7.43	32.65	40	25.53	246.3	1.02	.21	1478.
50	7.26	32.65	50	25.56	244.2	1.26	.32	1478.
60	6.96	32.63	60	25.58	242.0	1.51	.46	1477.
70	6.84	32.63	70	25.60	240.6	1.75	.62	1476.
80	6.72	32.64	80	25.62	238.4	1.99	.80	1476.
90	6.35	32.72	89	25.73	228.0	2.22	1.00	1475.
100	5.74	32.87	99	25.93	209.2	2.44	1.21	1473.
110	5.21	33.07	109	26.14	189.1	2.64	1.43	1471.
120	5.12	33.15	119	26.22	181.9	2.82	1.64	1471.
130	5.17	33.32	129	26.35	169.8	3.00	1.87	1472.
140	5.47	33.57	139	26.51	154.6	3.16	2.09	1473.
150	5.57	33.71	149	26.61	145.4	3.31	2.31	1474.
160	5.56	33.76	159	26.65	141.7	3.45	2.53	1474.
170	5.51	33.79	169	26.68	139.0	3.59	2.77	1474.
180	5.50	33.81	179	26.70	137.6	3.73	3.02	1474.
190	5.42	33.84	189	26.73	134.5	3.87	3.27	1474.
200	5.32	33.85	199	26.75	132.6	4.00	3.54	1474.
210	5.23	33.86	209	26.77	131.0	4.13	3.81	1474.
220	5.14	33.87	218	26.79	129.3	4.26	4.10	1474.
230	5.04	33.87	228	26.80	127.8	4.39	4.40	1473.
240	4.98	33.88	238	26.81	126.9	4.52	4.70	1473.
250	4.89	33.88	248	26.82	126.0	4.65	5.02	1473.
260	4.82	33.89	258	26.84	124.7	4.77	5.34	1473.
270	4.77	33.90	268	26.85	123.4	4.90	5.68	1473.
280	4.73	33.91	278	26.86	122.3	5.02	6.02	1473.
290	4.71	33.92	288	26.88	121.4	5.14	6.38	1473.
300	4.58	33.92	298	26.89	120.1	5.26	6.74	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 73

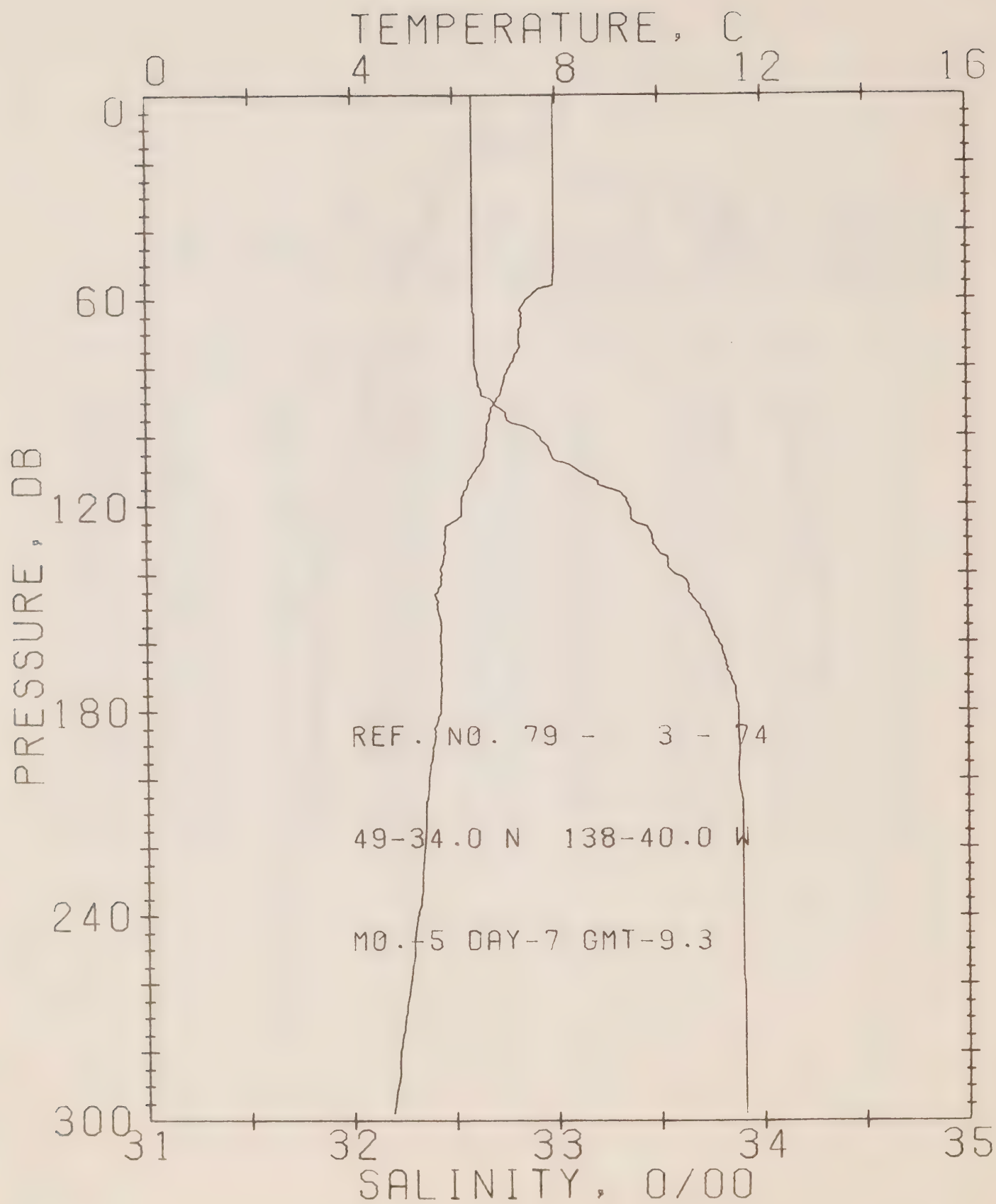
DATE 7/ 5/79

POSITION 49-41.0N, 140-40.0W GMT 2.8 STATION 11

RESULTS OF STP CAST 291 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.03	32.63	0	25.43	255.4	.00	.00	1480.
10	8.03	32.63	10	25.43	255.5	.26	.01	1480.
20	8.01	32.63	20	25.44	255.4	.51	.05	1480.
30	7.95	32.63	30	25.45	254.7	.77	.12	1480.
50	7.26	32.65	50	25.56	244.2	1.26	.32	1478.
75	6.79	32.63	75	25.61	240.0	1.87	.70	1476.
100	5.74	32.87	99	25.93	209.2	2.44	1.21	1473.
125	5.12	33.24	124	26.29	175.2	2.91	1.75	1471.
150	5.57	33.71	149	26.61	145.4	3.31	2.31	1474.
175	5.52	33.80	174	26.69	138.4	3.66	2.89	1474.
200	5.32	33.85	199	26.75	132.6	4.00	3.54	1474.
225	5.09	33.87	223	26.79	128.8	4.33	4.25	1474.
250	4.89	33.88	248	26.82	126.0	4.65	5.02	1473.
300	4.58	33.92	298	26.89	120.1	5.26	6.74	1473.
400	4.24	34.00	397	26.99	111.2	6.42	10.86	1473.
500	3.92	34.06	496	27.07	103.8	7.50	15.79	1473.
600	3.70	34.15	595	27.17	95.6	8.50	21.39	1474.
800	3.30	34.28	793	27.30	83.5	10.27	34.01	1476.
1000	2.98	34.36	990	27.40	75.5	11.86	48.57	1478.
1200	2.70	34.44	1188	27.49	67.6	13.29	64.57	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 74

DATE 7/ 5/79

POSITION 49-34.0N, 138-40.0W

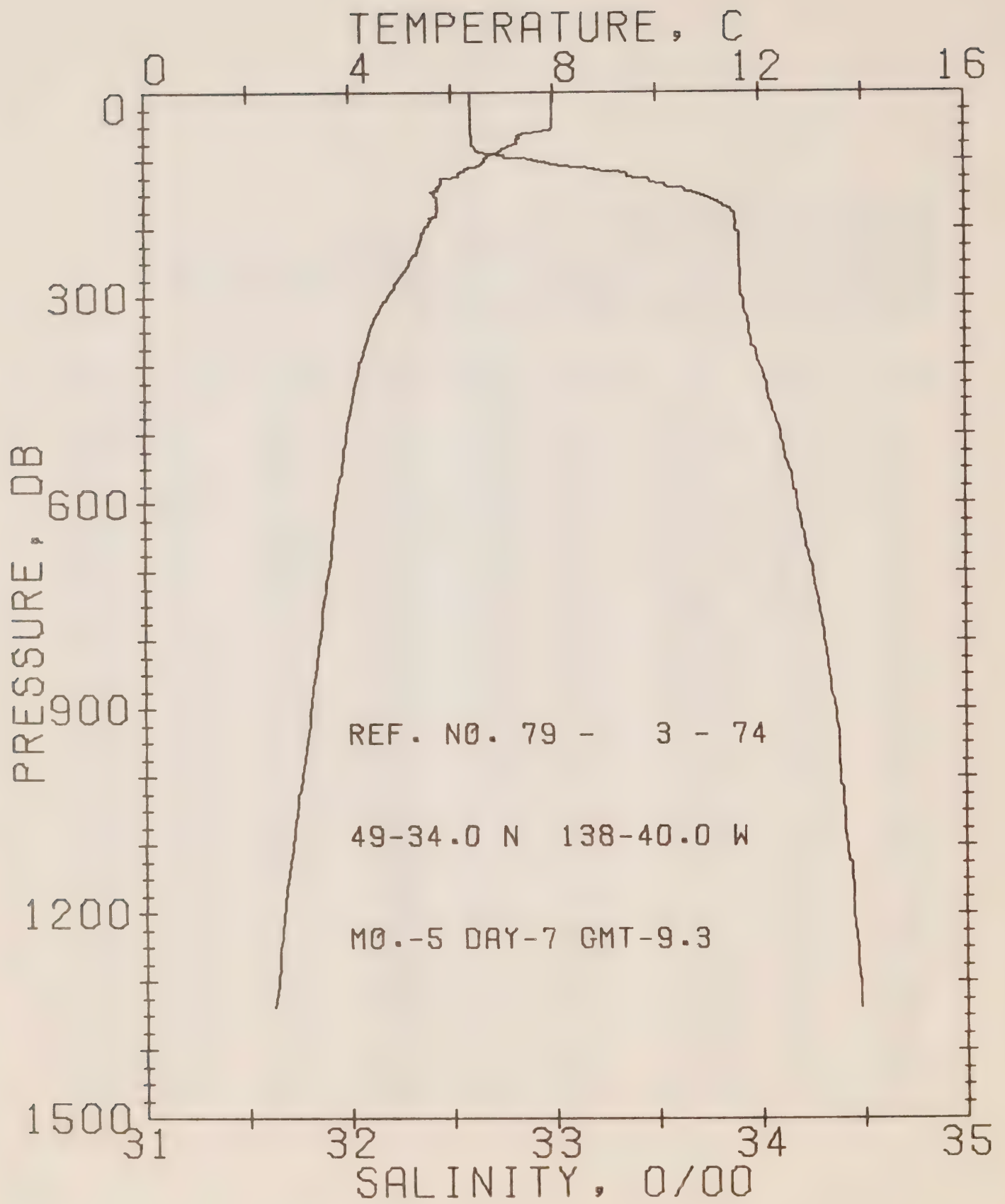
GMT 9.3

STATION 10

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.59	0	25.41	257.7	.00	.00	1480.
10	7.98	32.59	10	25.41	257.8	.26	.01	1480.
20	7.98	32.59	20	25.41	258.0	.52	.05	1480.
30	7.98	32.59	30	25.41	258.1	.77	.12	1480.
40	7.97	32.59	40	25.41	258.1	1.03	.21	1480.
50	7.97	32.59	50	25.41	258.3	1.29	.33	1480.
60	7.41	32.59	60	25.49	250.8	1.55	.47	1478.
70	7.29	32.60	70	25.52	248.6	1.80	.64	1478.
80	7.09	32.61	80	25.55	245.7	2.04	.83	1478.
90	6.80	32.69	89	25.65	235.8	2.29	1.04	1477.
100	6.64	32.92	99	25.85	216.8	2.51	1.26	1477.
110	6.41	33.11	109	26.03	199.8	2.72	1.48	1476.
120	6.13	33.35	119	26.26	178.7	2.91	1.70	1475.
130	5.80	33.47	129	26.39	165.8	3.08	1.92	1474.
140	5.76	33.57	139	26.48	158.0	3.25	2.14	1474.
150	5.66	33.70	149	26.59	147.3	3.40	2.37	1474.
160	5.71	33.79	159	26.66	141.3	3.54	2.60	1475.
170	5.73	33.85	169	26.70	137.1	3.68	2.83	1475.
180	5.70	33.88	179	26.73	134.7	3.82	3.07	1475.
190	5.57	33.89	189	26.75	132.5	3.95	3.32	1475.
200	5.47	33.88	199	26.76	132.2	4.08	3.59	1475.
210	5.42	33.90	209	26.78	130.2	4.21	3.86	1475.
220	5.38	33.90	218	26.78	129.9	4.34	4.15	1475.
230	5.33	33.90	228	26.79	129.4	4.47	4.44	1475.
240	5.25	33.90	238	26.80	128.5	4.60	4.75	1474.
250	5.17	33.90	248	26.81	127.7	4.73	5.07	1474.
260	5.10	33.90	258	26.82	126.6	4.86	5.40	1474.
270	4.98	33.91	268	26.84	125.0	4.98	5.74	1474.
280	4.89	33.91	278	26.85	124.1	5.11	6.09	1474.
290	4.85	33.91	288	26.85	123.7	5.23	6.45	1474.
300	4.74	33.91	298	26.87	122.3	5.35	6.82	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 74

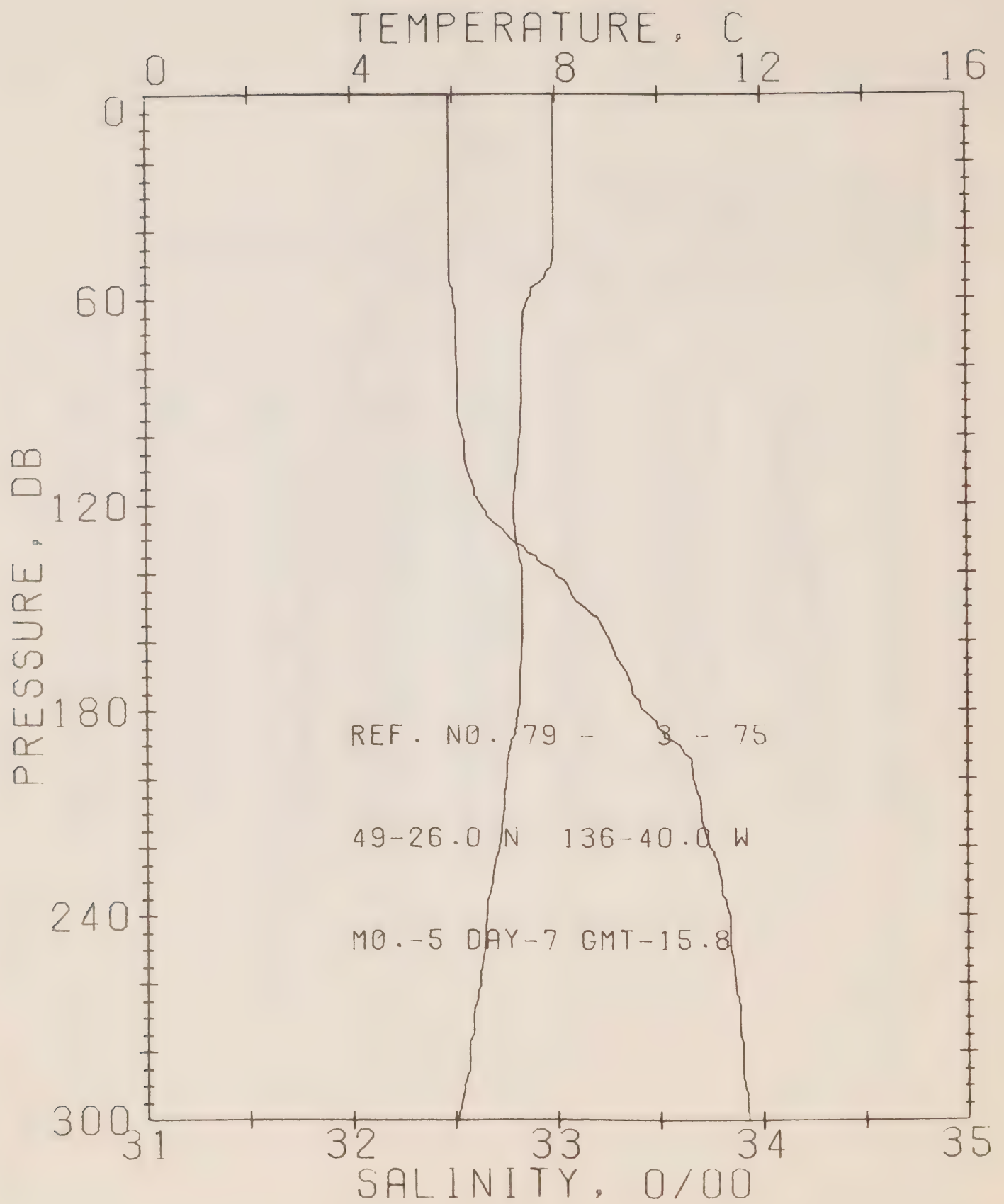
DATE 7/ 5/79

POSITION 49-34.0N, 138-40.0W GMT 9.3 STATION 10

RESULTS OF STP CAST 299 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.59	0	25.41	257.7	.00	.00	1480.
10	7.98	32.59	10	25.41	257.8	.26	.01	1480.
20	7.98	32.59	20	25.41	258.0	.52	.05	1480.
30	7.98	32.59	30	25.41	258.1	.77	.12	1480.
50	7.97	32.59	50	25.41	258.3	1.29	.33	1480.
75	7.25	32.60	75	25.52	248.2	1.92	.73	1478.
100	6.64	32.92	99	25.85	216.8	2.51	1.26	1477.
125	5.92	33.39	124	26.31	173.2	3.00	1.81	1475.
150	5.66	33.70	149	26.59	147.3	3.40	2.37	1474.
175	5.72	33.87	174	26.72	135.5	3.75	2.95	1475.
200	5.47	33.88	199	26.76	132.2	4.08	3.59	1475.
225	5.36	33.90	223	26.79	129.6	4.41	4.29	1475.
250	5.17	33.90	248	26.81	127.7	4.73	5.07	1474.
300	4.74	33.91	298	26.87	122.3	5.35	6.82	1473.
400	4.18	34.00	397	26.99	110.8	6.52	10.96	1473.
500	3.92	34.10	496	27.10	101.2	7.56	15.82	1473.
600	3.71	34.18	595	27.19	93.8	8.56	21.30	1474.
800	3.38	34.31	793	27.32	82.0	10.32	33.80	1476.
1000	3.03	34.39	990	27.42	73.7	11.86	47.97	1478.
1200	2.68	34.45	1188	27.50	66.6	13.26	63.61	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 75

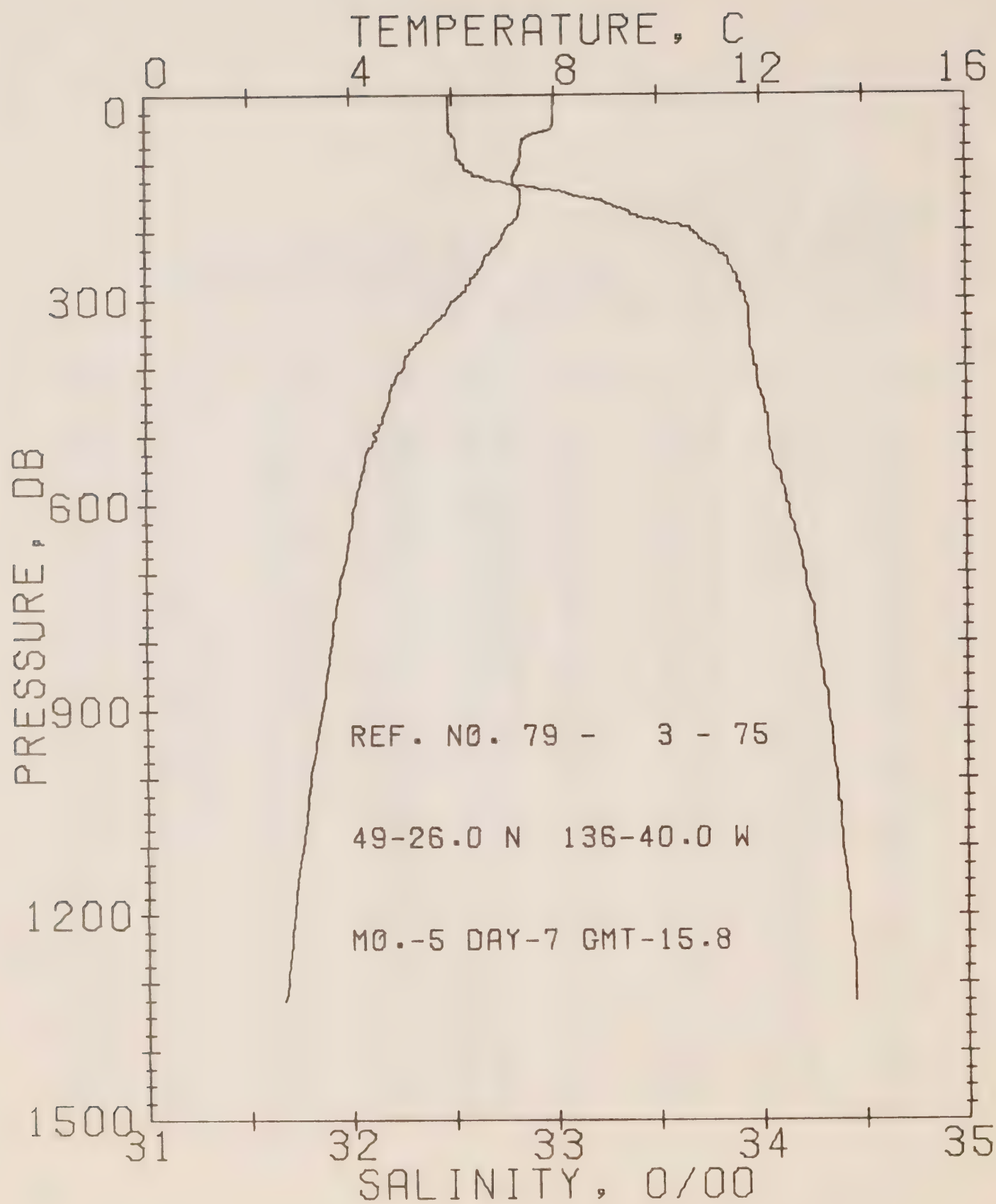
DATE 7/ 5/79

POSITION 49-26.0N, 136-40.0W GMT 15.8 STATION 9

RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.48	0	25.32	265.9	.00	.00	1480.
10	7.98	32.48	10	25.32	266.0	.27	.01	1480.
20	7.98	32.48	20	25.32	266.2	.53	.05	1480.
30	7.98	32.48	30	25.32	266.3	.80	.12	1480.
40	7.98	32.48	40	25.32	266.5	1.06	.22	1480.
50	7.93	32.48	50	25.33	265.8	1.33	.34	1480.
60	7.46	32.50	60	25.41	258.2	1.59	.49	1479.
70	7.36	32.51	70	25.44	256.2	1.85	.66	1478.
80	7.34	32.52	80	25.44	255.7	2.11	.85	1478.
90	7.33	32.52	89	25.45	255.4	2.36	1.07	1479.
100	7.30	32.55	99	25.47	253.3	2.62	1.32	1479.
110	7.23	32.57	109	25.50	251.0	2.87	1.59	1479.
120	7.17	32.63	119	25.55	245.5	3.12	1.88	1479.
130	7.21	32.78	129	25.67	234.6	3.36	2.19	1479.
140	7.33	32.99	139	25.82	220.8	3.58	2.50	1480.
150	7.34	33.14	149	25.93	210.3	3.80	2.82	1480.
160	7.32	33.26	159	26.03	201.4	4.01	3.14	1481.
170	7.29	33.35	169	26.10	194.3	4.20	3.48	1481.
180	7.25	33.42	179	26.17	188.2	4.40	3.82	1481.
190	7.10	33.59	189	26.32	174.2	4.58	4.16	1481.
200	7.01	33.66	199	26.39	167.9	4.75	4.50	1481.
210	6.94	33.70	209	26.43	164.2	4.91	4.85	1481.
220	6.86	33.74	219	26.47	160.3	5.08	5.20	1480.
230	6.72	33.80	228	26.53	154.1	5.23	5.56	1480.
240	6.61	33.84	238	26.58	149.8	5.38	5.93	1480.
250	6.56	33.84	248	26.59	149.3	5.53	6.30	1480.
260	6.48	33.87	258	26.62	146.4	5.68	6.68	1480.
270	6.36	33.89	268	26.65	143.3	5.83	7.07	1479.
280	6.26	33.90	278	26.67	141.4	5.97	7.47	1479.
290	6.17	33.91	288	26.69	139.6	6.11	7.88	1479.
300	6.02	33.93	298	26.73	136.4	6.25	8.30	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 75

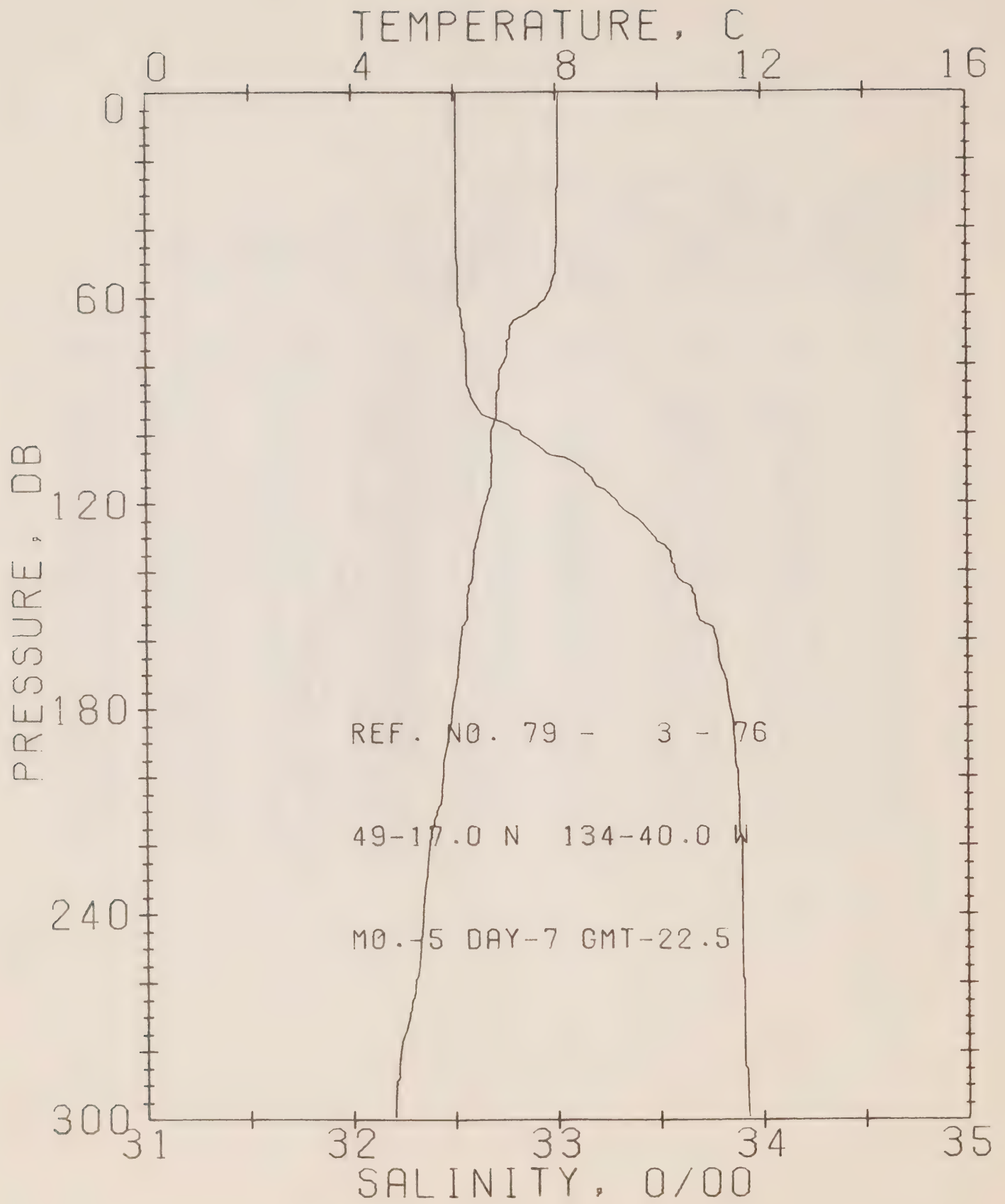
DATE 7/ 5/79

POSITION 49-26.0N, 136-40.0W GMT 15.8 STATION 9

RESULTS OF STP CAST 332 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

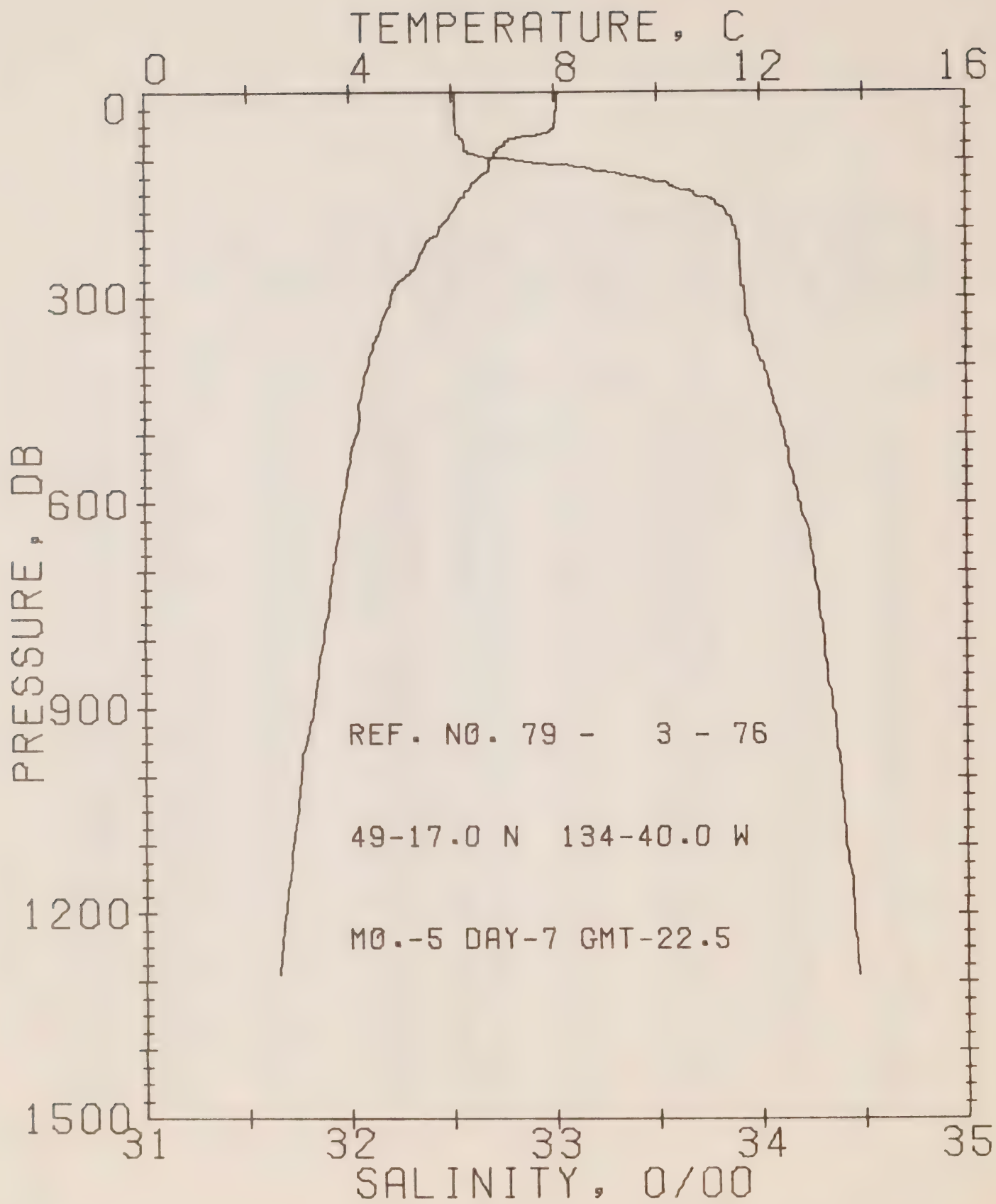
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.98	32.48	0	25.32	265.9	.00	.00	1480.
10	7.98	32.48	10	25.32	266.0	.27	.01	1480.
20	7.98	32.48	20	25.32	266.2	.53	.05	1480.
30	7.98	32.48	30	25.32	266.3	.80	.12	1480.
50	7.93	32.48	50	25.33	265.8	1.33	.34	1480.
75	7.34	32.51	75	25.44	256.1	1.98	.75	1478.
100	7.30	32.55	99	25.47	253.3	2.62	1.32	1479.
125	7.18	32.69	124	25.60	241.2	3.24	2.03	1479.
150	7.34	33.14	149	25.93	210.3	3.80	2.82	1480.
175	7.27	33.37	174	26.12	192.6	4.30	3.65	1481.
200	7.01	33.66	199	26.39	167.9	4.75	4.50	1481.
225	6.76	33.78	223	26.52	155.8	5.15	5.38	1480.
250	6.56	33.84	248	26.59	149.3	5.53	6.30	1480.
300	6.02	33.93	298	26.73	136.4	6.25	8.30	1479.
400	5.01	33.98	397	26.89	121.5	7.53	12.88	1476.
500	4.49	34.03	496	26.99	112.7	8.70	18.21	1476.
600	4.06	34.13	595	27.11	101.7	9.77	24.20	1476.
800	3.61	34.27	793	27.27	87.5	11.65	37.56	1477.
1000	3.16	34.36	991	27.38	77.3	13.29	52.58	1479.
1200	2.84	34.42	1188	27.46	70.5	14.76	69.09	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 76 DATE 7/ 5/79
 POSITION 49-17.0N, 134-40.0W GMT 22.5 STATION 8
 RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE
 GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.07	32.51	0	25.33	264.9	.00	.00	1480.
10	8.05	32.51	10	25.34	264.7	.26	.01	1480.
20	8.05	32.51	20	25.34	264.9	.53	.05	1480.
30	8.04	32.51	30	25.34	264.9	.79	.12	1480.
40	8.04	32.51	40	25.34	265.1	1.06	.22	1480.
50	8.00	32.52	50	25.35	264.2	1.32	.34	1481.
60	7.82	32.52	60	25.38	261.6	1.59	.49	1480.
70	7.10	32.55	70	25.50	249.9	1.84	.65	1477.
80	6.93	32.56	80	25.53	247.1	2.09	.84	1477.
90	6.83	32.59	89	25.57	243.7	2.34	1.06	1477.
100	6.72	32.83	99	25.77	224.5	2.57	1.29	1477.
110	6.72	33.13	109	26.01	202.3	2.79	1.51	1477.
120	6.62	33.30	119	26.15	188.5	2.98	1.74	1477.
130	6.45	33.48	129	26.32	173.1	3.16	1.97	1477.
140	6.36	33.57	139	26.40	165.4	3.33	2.20	1477.
150	6.25	33.68	149	26.50	156.2	3.49	2.44	1477.
160	6.11	33.78	159	26.60	146.9	3.64	2.68	1477.
170	6.05	33.82	169	26.63	143.6	3.79	2.92	1476.
180	5.94	33.84	179	26.67	140.3	3.93	3.18	1476.
190	5.86	33.87	189	26.70	137.6	4.07	3.44	1476.
200	5.76	33.88	199	26.72	135.6	4.21	3.71	1476.
210	5.64	33.89	209	26.74	133.6	4.34	3.99	1476.
220	5.48	33.90	218	26.77	131.0	4.47	4.28	1475.
230	5.43	33.90	228	26.78	130.5	4.60	4.58	1475.
240	5.35	33.90	238	26.79	129.8	4.73	4.89	1475.
250	5.30	33.90	248	26.79	129.2	4.86	5.22	1475.
260	5.20	33.91	258	26.81	127.5	4.99	5.55	1475.
270	5.08	33.91	268	26.83	126.2	5.12	5.89	1474.
280	4.91	33.91	278	26.84	124.3	5.24	6.25	1474.
290	4.83	33.92	288	26.86	122.7	5.37	6.60	1474.
300	4.80	33.93	298	26.87	121.8	5.49	6.97	1474.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 76

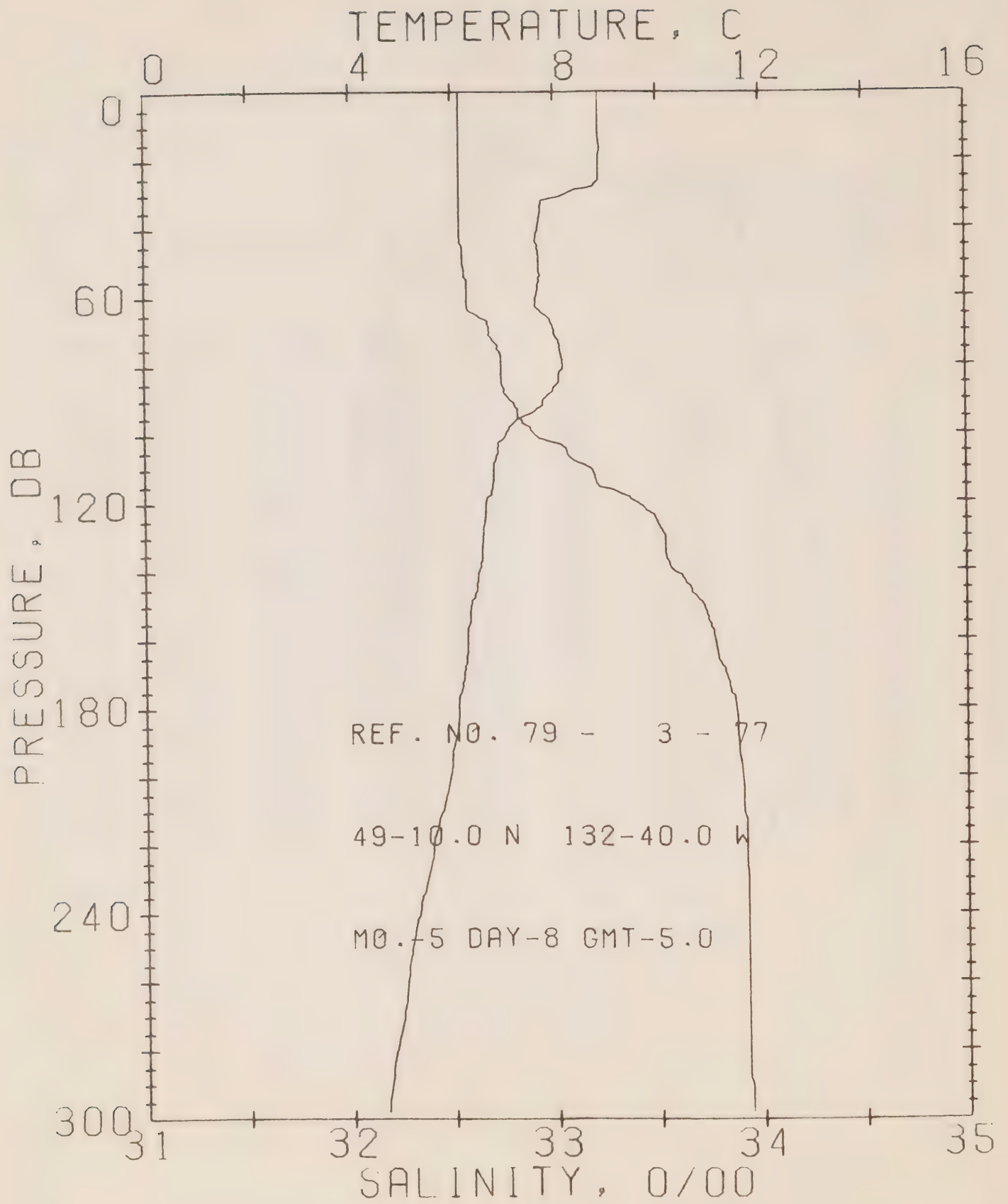
DATE 7/ 5/79

POSITION 49-17.0N, 134-40.0W GMT 22.5 STATION 8

RESULTS OF STP CAST 301 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.07	32.51	0	25.33	264.9	.00	.00	1480.
10	8.05	32.51	10	25.34	264.7	.26	.01	1480.
20	8.05	32.51	20	25.34	264.9	.53	.05	1480.
30	8.04	32.51	30	25.34	264.9	.79	.12	1480.
50	8.00	32.52	50	25.35	264.2	1.32	.34	1481.
75	7.05	32.56	75	25.52	248.5	1.97	.75	1477.
100	6.72	32.83	99	25.77	224.5	2.57	1.29	1477.
125	6.51	33.41	124	26.26	179.0	3.08	1.86	1477.
150	6.25	33.68	149	26.50	156.2	3.49	2.44	1477.
175	5.99	33.83	174	26.66	141.5	3.86	3.05	1476.
200	5.76	33.88	199	26.72	135.6	4.21	3.71	1476.
225	5.46	33.90	223	26.77	130.8	4.54	4.43	1475.
250	5.30	33.90	248	26.79	129.2	4.86	5.22	1475.
300	4.80	33.93	298	26.87	121.8	5.49	6.97	1474.
400	4.36	34.02	397	26.99	111.3	6.66	11.15	1474.
500	4.12	34.11	496	27.09	102.6	7.73	16.05	1474.
600	3.84	34.16	595	27.18	94.9	8.72	21.58	1475.
800	3.46	34.31	793	27.31	82.9	10.49	34.15	1477.
1000	3.01	34.39	990	27.42	73.4	12.05	48.48	1478.
1200	2.71	34.45	1188	27.49	66.9	13.46	64.24	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 77

DATE 8/ 5/79

POSITION 49-10.0N, 132-40.0W

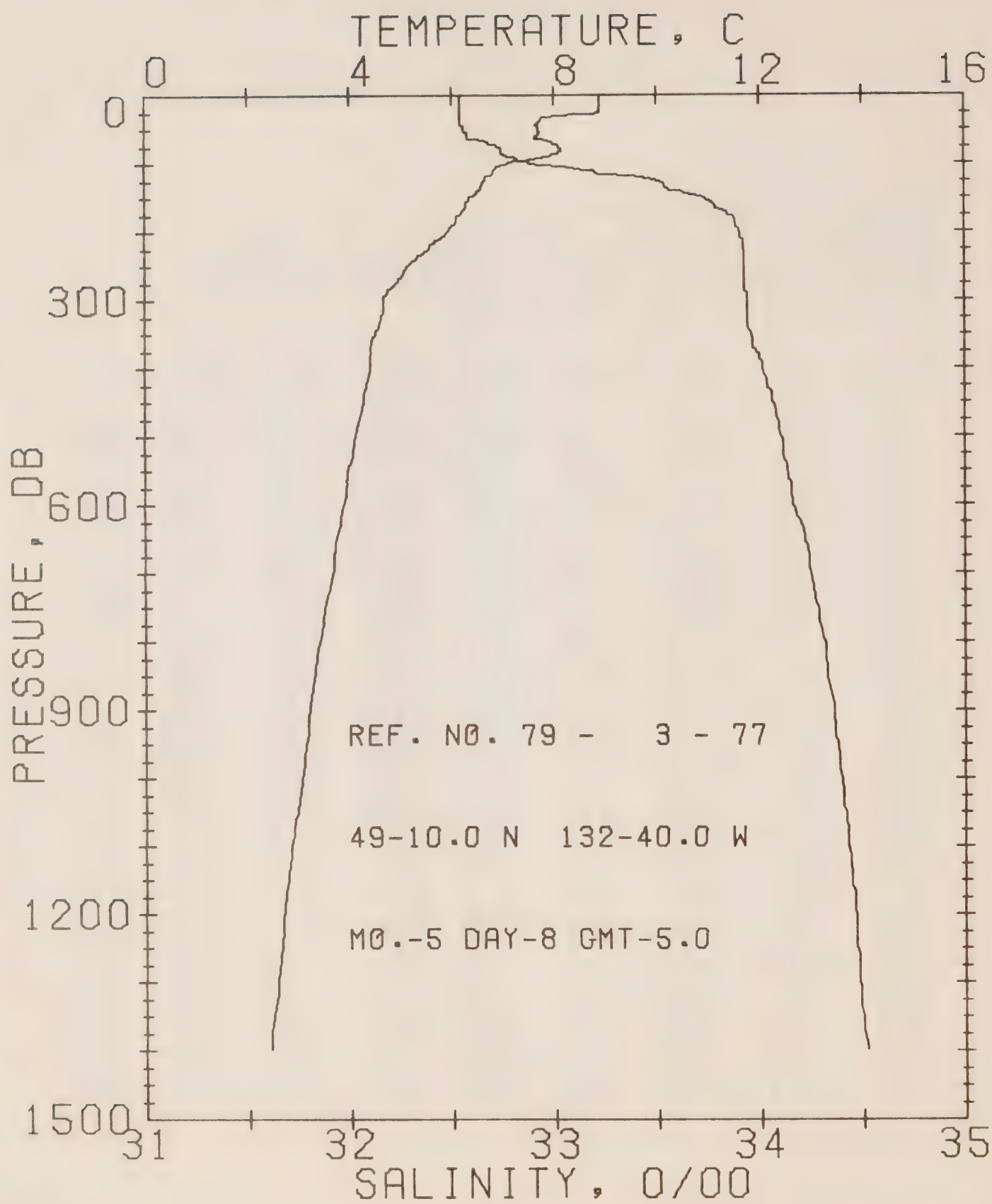
GMT 5.0

STATION 7

RESULTS OF STP CAST 176 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.89	32.54	0	25.23	274.3	.00	.00	1483.
10	8.89	32.54	10	25.23	274.5	.27	.01	1483.
20	8.89	32.54	20	25.23	274.7	.55	.06	1483.
30	8.27	32.54	30	25.33	265.9	.82	.13	1481.
40	7.69	32.54	40	25.41	258.0	1.08	.22	1479.
50	7.70	32.55	50	25.42	257.6	1.34	.34	1479.
60	7.65	32.57	60	25.44	255.5	1.60	.48	1479.
70	7.99	32.68	70	25.48	252.2	1.85	.65	1481.
80	8.15	32.74	80	25.50	250.1	2.10	.84	1482.
90	7.79	32.78	89	25.59	242.3	2.35	1.05	1481.
100	7.05	32.90	99	25.78	223.5	2.58	1.28	1478.
110	6.80	33.18	109	26.04	199.6	2.79	1.51	1478.
120	6.64	33.41	119	26.24	180.6	2.99	1.73	1477.
130	6.58	33.53	129	26.34	171.0	3.16	1.95	1478.
140	6.50	33.58	139	26.39	166.4	3.33	2.19	1477.
150	6.35	33.72	149	26.52	154.4	3.49	2.43	1477.
160	6.27	33.78	159	26.57	149.3	3.64	2.66	1477.
170	6.20	33.83	169	26.63	144.4	3.79	2.91	1477.
180	6.08	33.87	179	26.68	139.7	3.93	3.17	1477.
190	5.99	33.89	189	26.70	137.6	4.07	3.43	1477.
200	5.90	33.90	199	26.72	135.5	4.21	3.70	1476.
210	5.77	33.91	209	26.74	133.6	4.34	3.98	1476.
220	5.55	33.92	218	26.78	130.4	4.47	4.27	1475.
230	5.45	33.93	228	26.80	128.5	4.60	4.57	1475.
240	5.30	33.93	238	26.82	126.8	4.73	4.87	1475.
250	5.12	33.93	248	26.84	124.9	4.86	5.18	1474.
260	5.04	33.93	258	26.85	124.1	4.98	5.51	1474.
270	4.96	33.93	268	26.85	123.3	5.10	5.84	1474.
280	4.82	33.93	278	26.87	121.8	5.23	6.19	1473.
290	4.72	33.94	288	26.89	120.0	5.35	6.54	1473.
300	4.67	33.94	298	26.90	119.6	5.47	6.90	1473.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 77

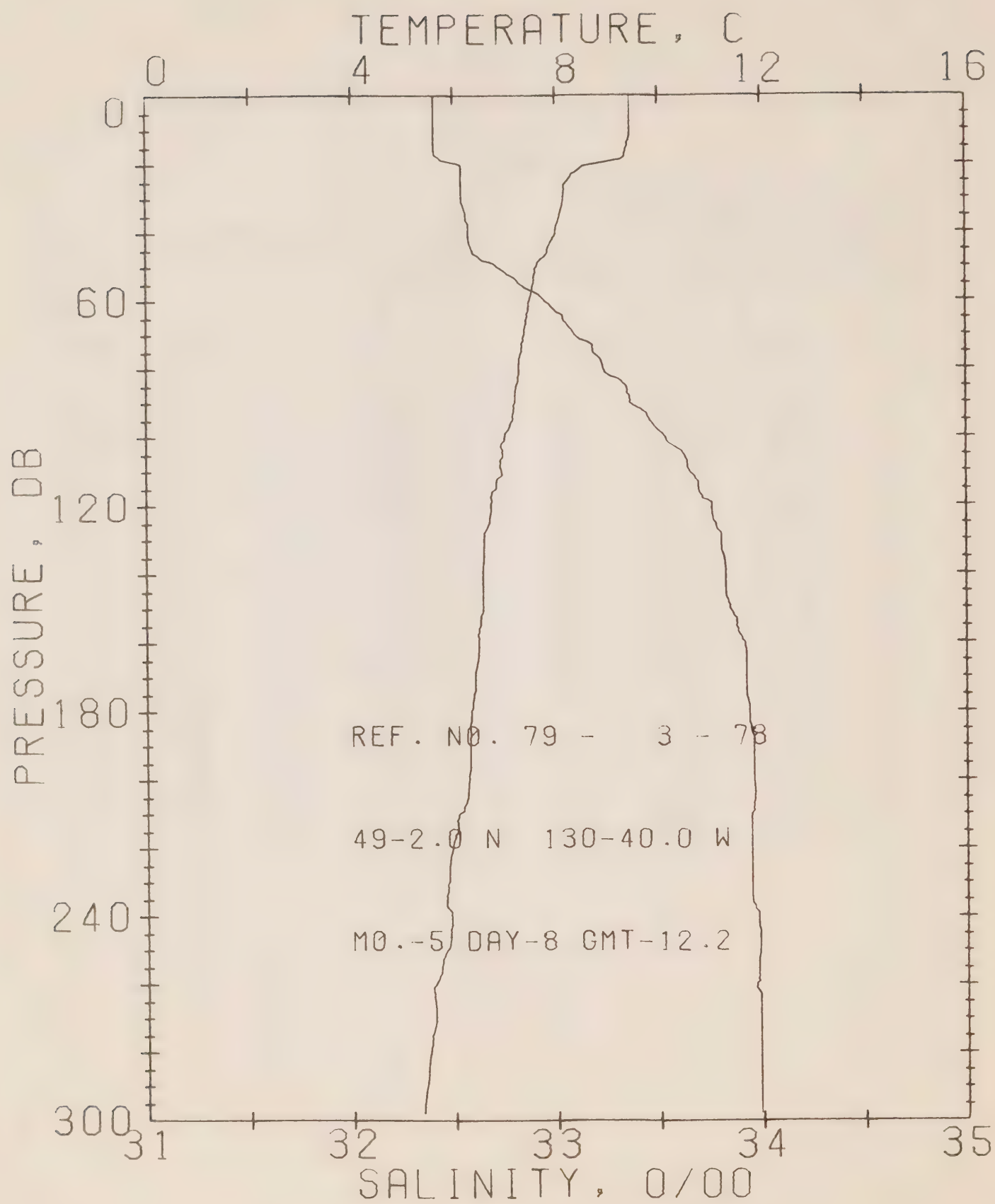
DATE 8/ 5/79

POSITION 49-10.00N, 132-40.0W GMT 5.0 STATION 7

RESULTS OF STD CAST 325 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.89	32.54	0	25.23	274.3	.00	.00	1483.
10	8.89	32.54	10	25.23	274.5	.27	.01	1483.
20	8.89	32.54	20	25.23	274.7	.55	.06	1483.
30	8.27	32.54	30	25.33	265.9	.82	.13	1481.
50	7.70	32.55	50	25.42	257.6	1.34	.34	1479.
75	8.12	32.72	75	25.49	251.1	1.98	.74	1482.
100	7.05	32.90	99	25.78	223.5	2.58	1.28	1478.
125	6.62	33.49	124	26.31	174.1	3.07	1.84	1478.
150	6.35	33.72	149	26.52	154.4	3.49	2.43	1477.
175	6.13	33.85	174	26.65	142.1	3.86	3.04	1477.
200	5.90	33.90	199	26.72	135.5	4.21	3.70	1476.
225	5.51	33.92	223	26.78	129.9	4.54	4.42	1475.
250	5.12	33.93	248	26.84	124.9	4.86	5.18	1474.
300	4.67	33.94	298	26.90	119.6	5.47	6.90	1473.
400	4.39	34.01	397	26.98	112.2	6.63	11.05	1474.
500	4.10	34.10	496	27.08	103.0	7.71	15.97	1474.
600	3.88	34.16	595	27.15	97.1	8.71	21.56	1475.
800	3.40	34.32	793	27.33	81.8	10.48	34.19	1476.
1000	3.04	34.40	990	27.42	73.1	12.03	48.36	1478.
1200	2.68	34.47	1188	27.51	65.4	13.41	63.83	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 78

DATE 8/ 5/79

POSITION 49- 2.0N, 130-40.0W

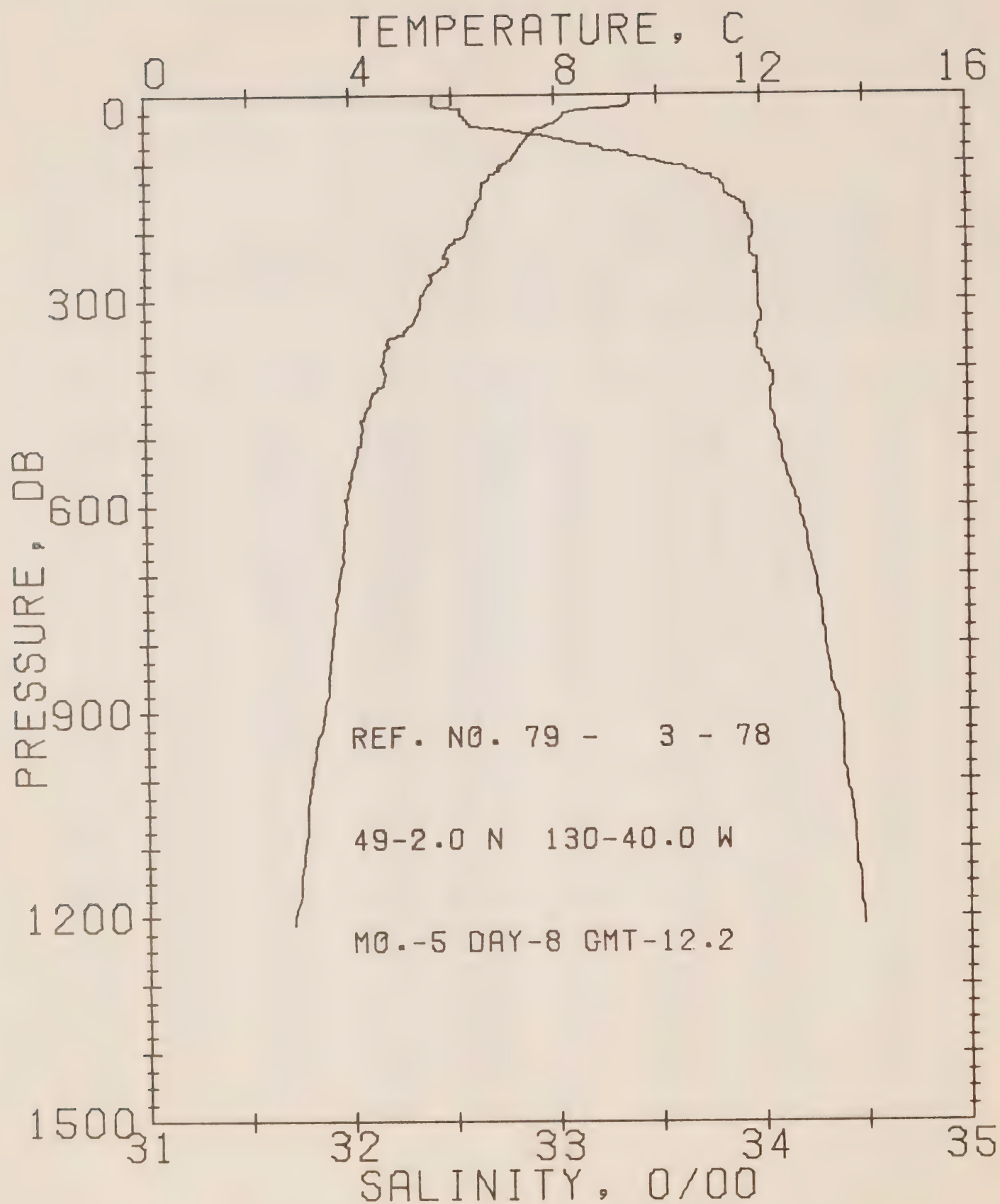
GMT 12.2

STATION 6

RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.47	32.41	0	25.04	292.7	.00	.00	1485.
10	9.47	32.41	10	25.04	292.9	.29	.01	1485.
20	8.83	32.54	20	25.24	273.8	.58	.06	1483.
30	8.15	32.54	30	25.35	264.2	.85	.13	1481.
40	8.00	32.57	40	25.39	260.0	1.11	.22	1480.
50	7.63	32.71	50	25.55	244.7	1.37	.34	1479.
60	7.48	32.95	60	25.76	225.0	1.60	.47	1479.
70	7.38	33.09	70	25.89	213.4	1.82	.61	1479.
80	7.28	33.23	80	26.01	201.8	2.03	.77	1479.
90	7.19	33.36	89	26.12	191.0	2.22	.94	1479.
100	6.99	33.53	99	26.29	175.9	2.40	1.12	1479.
110	6.93	33.65	109	26.39	166.3	2.57	1.30	1479.
120	6.72	33.76	119	26.50	155.5	2.73	1.49	1478.
130	6.59	33.81	129	26.56	150.3	2.89	1.68	1478.
140	6.56	33.83	139	26.58	148.6	3.04	1.89	1478.
150	6.57	33.85	149	26.59	147.3	3.19	2.11	1478.
160	6.48	33.92	159	26.66	141.1	3.33	2.33	1478.
170	6.41	33.93	169	26.68	139.5	3.47	2.57	1478.
180	6.33	33.94	179	26.70	138.0	3.61	2.82	1478.
190	6.30	33.96	189	26.72	136.2	3.75	3.08	1478.
200	6.26	33.96	199	26.72	135.9	3.88	3.35	1478.
210	6.05	33.95	209	26.74	134.1	4.02	3.63	1477.
220	5.94	33.95	218	26.75	132.9	4.15	3.92	1477.
230	5.86	33.95	228	26.76	132.0	4.28	4.23	1477.
240	5.92	33.98	238	26.78	130.6	4.41	4.54	1477.
250	5.82	33.99	248	26.80	128.8	4.54	4.86	1477.
260	5.59	33.97	258	26.81	127.6	4.67	5.20	1476.
270	5.60	33.99	268	26.83	126.3	4.80	5.54	1477.
280	5.48	33.99	278	26.84	125.1	4.92	5.89	1476.
290	5.42	33.99	288	26.85	124.4	5.05	6.25	1476.
300	5.37	33.99	298	26.85	123.9	5.17	6.63	1476.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 78

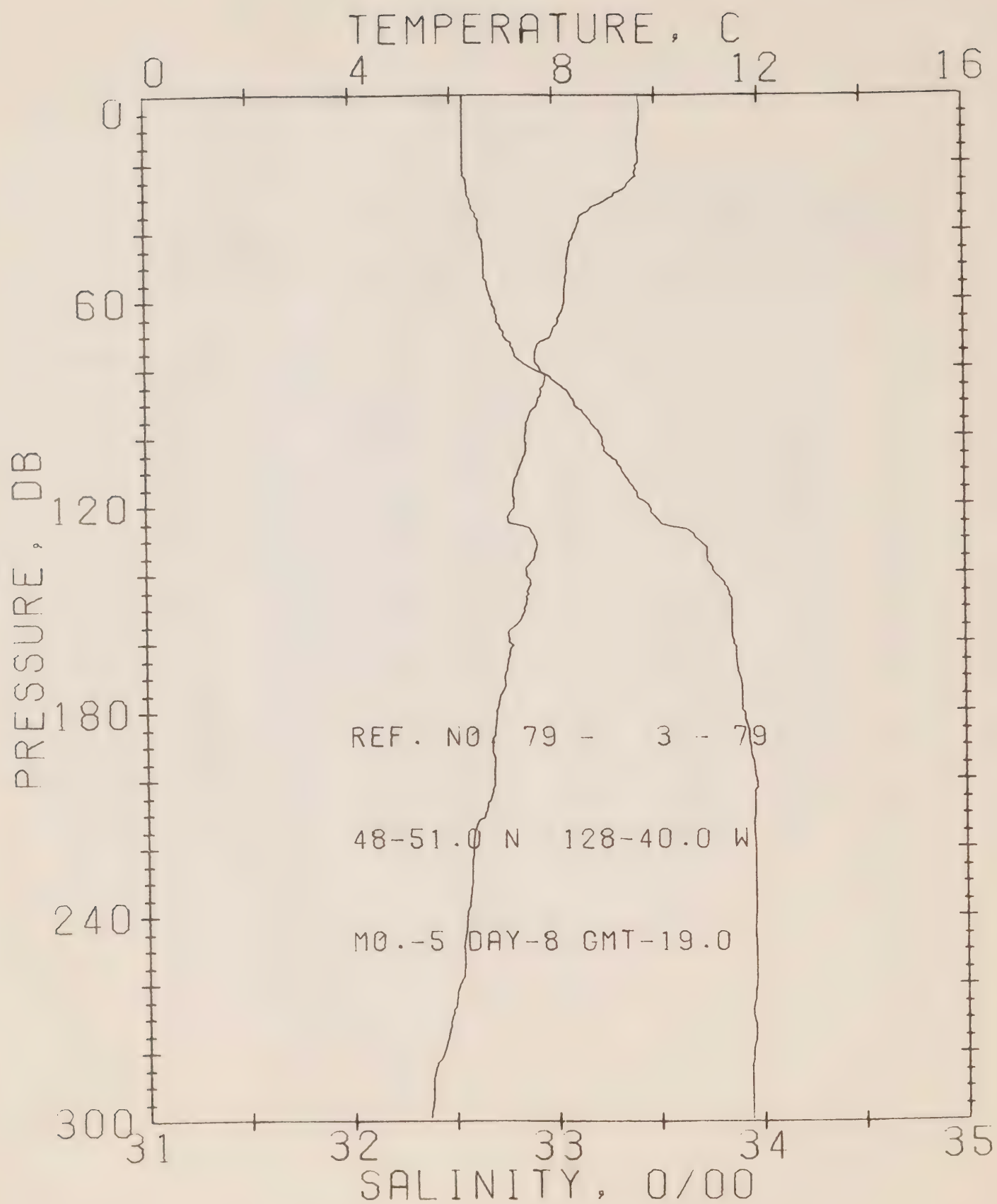
DATE 8/ 5/79

POSITION 49- 2.0N, 130-40.0W GMT 12.2 STATION 6

RESULTS OF STP CAST 386 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.47	32.41	0	25.04	292.7	.00	.00	1485.
10	9.47	32.41	10	25.04	292.9	.29	.01	1485.
20	8.83	32.54	20	25.24	273.8	.58	.06	1483.
30	8.15	32.54	30	25.35	264.2	.85	.13	1481.
50	7.63	32.71	50	25.55	244.7	1.37	.34	1479.
75	7.33	33.18	75	25.96	206.1	1.92	.69	1479.
100	6.99	33.53	99	26.29	175.9	2.40	1.12	1479.
125	6.69	33.78	124	26.52	153.7	2.81	1.58	1478.
150	6.57	33.85	149	26.59	147.3	3.19	2.11	1478.
175	6.38	33.93	174	26.68	139.3	3.54	2.69	1478.
200	6.26	33.96	199	26.72	135.9	3.88	3.35	1478.
225	5.88	33.95	223	26.76	132.1	4.22	4.07	1477.
250	5.82	33.99	248	26.80	128.8	4.54	4.86	1477.
300	5.37	33.99	298	26.85	123.9	5.17	6.63	1476.
400	4.65	34.04	397	26.97	113.1	6.37	10.88	1475.
500	4.20	34.08	496	27.06	105.8	7.47	15.91	1475.
600	3.90	34.17	595	27.16	96.3	8.48	21.59	1475.
800	3.60	34.30	793	27.29	85.2	10.28	34.43	1477.
1000	3.18	34.40	990	27.42	74.3	11.87	48.93	1479.
1200	2.84	34.48	1188	27.51	66.1	13.27	64.61	1481.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 79

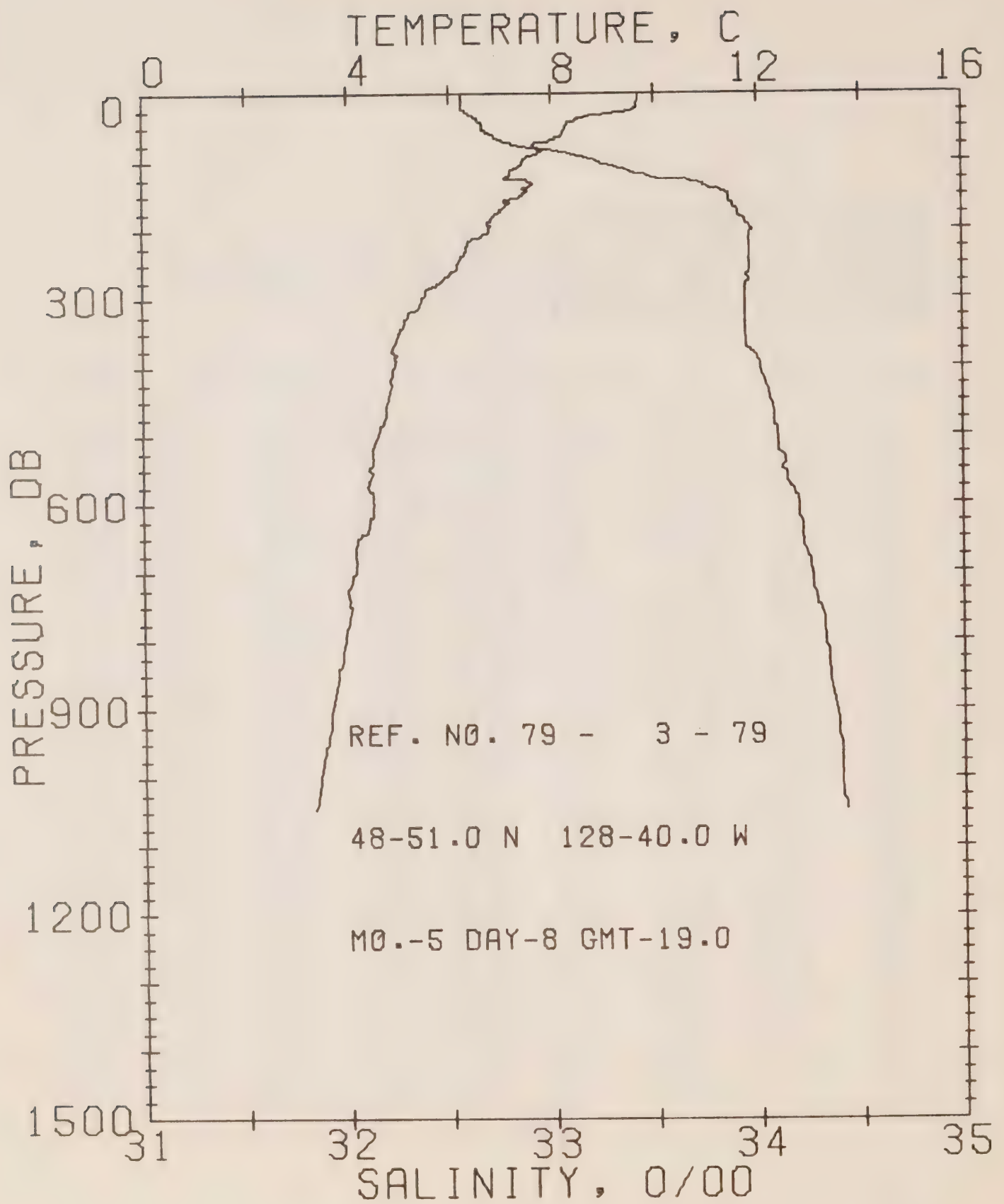
DATE 8/ 5/79

POSITION 48-51.0N, 128-40.0W GMT 19.0 STATION 5

RESULTS OF STP CAST 210 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.69	32.56	0	25.12	284.9	.00	.00	1486.
10	9.69	32.56	10	25.12	285.1	.29	.01	1486.
20	9.68	32.56	20	25.12	285.2	.57	.06	1486.
30	9.17	32.59	30	25.23	275.3	.85	.13	1485.
40	8.43	32.63	40	25.38	261.2	1.12	.22	1482.
50	8.27	32.66	50	25.42	257.3	1.38	.34	1482.
60	8.21	32.70	60	25.46	253.6	1.63	.49	1482.
70	7.96	32.75	70	25.54	246.6	1.88	.65	1481.
80	7.72	32.90	80	25.69	232.2	2.12	.83	1480.
90	7.67	33.09	89	25.85	217.1	2.34	1.03	1481.
100	7.42	33.23	99	25.99	203.9	2.55	1.23	1480.
110	7.29	33.33	109	26.09	194.9	2.75	1.45	1480.
120	7.19	33.46	119	26.20	184.0	2.94	1.67	1480.
130	7.63	33.70	129	26.33	172.3	3.12	1.89	1482.
140	7.43	33.78	139	26.42	163.8	3.29	2.13	1481.
150	7.39	33.86	149	26.49	157.5	3.45	2.36	1482.
160	7.10	33.87	159	26.54	152.9	3.61	2.61	1481.
170	6.99	33.90	169	26.58	149.4	3.76	2.86	1480.
180	6.82	33.92	179	26.62	145.8	3.90	3.13	1480.
190	6.74	33.95	189	26.65	142.6	4.05	3.40	1480.
200	6.78	33.98	199	26.67	141.3	4.19	3.68	1480.
210	6.60	33.97	209	26.68	139.6	4.33	3.98	1480.
220	6.35	33.97	218	26.72	136.5	4.47	4.28	1479.
230	6.31	33.97	228	26.72	136.2	4.61	4.59	1479.
240	6.21	33.97	238	26.73	135.1	4.74	4.91	1478.
250	6.14	33.97	248	26.74	134.3	4.88	5.25	1478.
260	6.06	33.97	258	26.75	133.4	5.01	5.60	1478.
270	5.90	33.95	268	26.76	132.6	5.14	5.96	1478.
280	5.72	33.95	278	26.78	130.9	5.28	6.33	1477.
290	5.51	33.94	288	26.80	129.2	5.41	6.71	1476.
300	5.46	33.94	298	26.80	128.7	5.54	7.10	1476.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 79

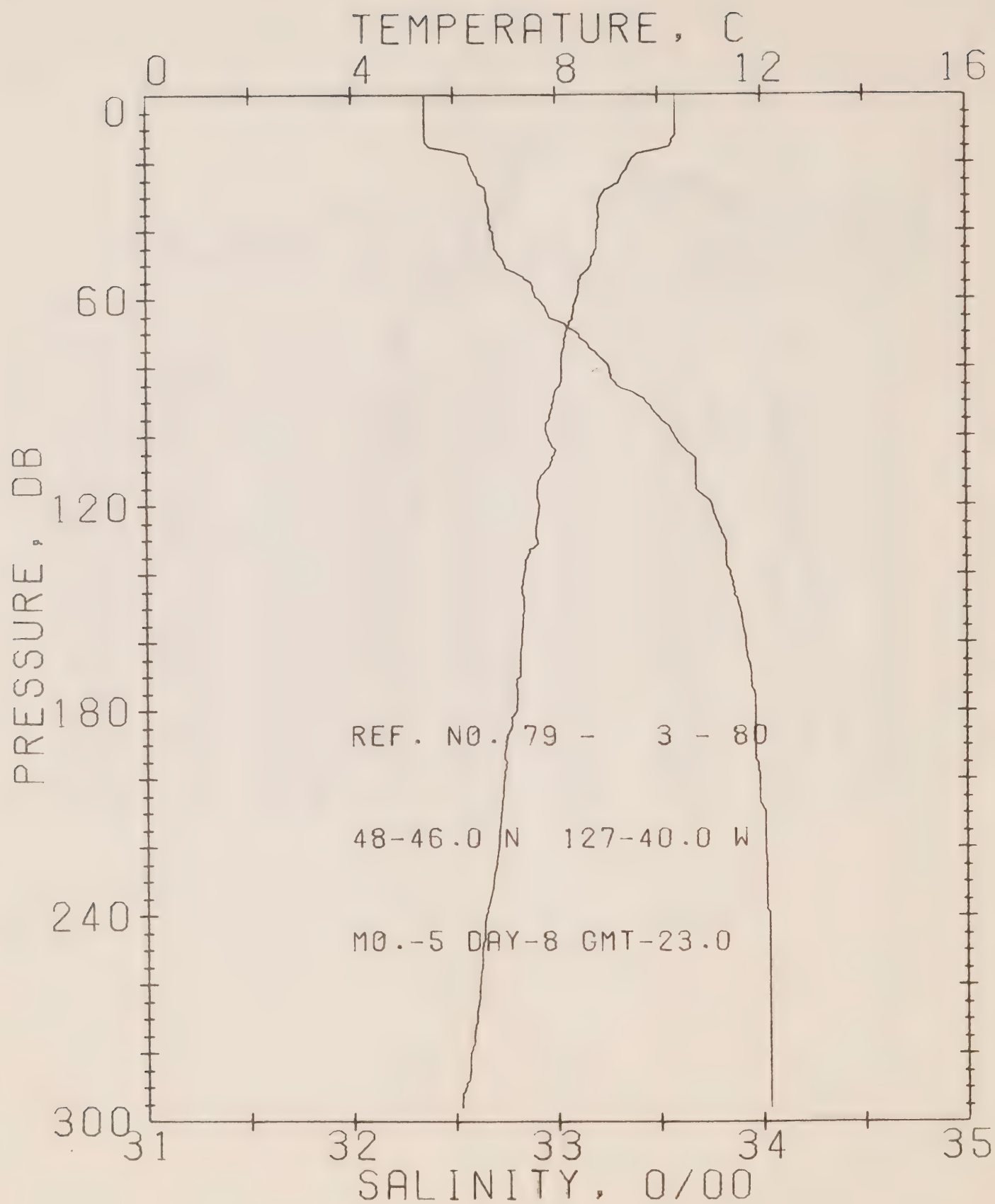
DATE 8/ 5/79

POSITION 48-51.0N, 128-40.0W GMT 19.0 STATION 5

RESULTS OF STP CAST 363 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.69	32.56	0	25.12	284.9	.00	.00	1486.
10	9.69	32.56	10	25.12	285.1	.29	.01	1486.
20	9.68	32.56	20	25.12	285.2	.57	.06	1486.
30	9.17	32.59	30	25.23	275.3	.85	.13	1485.
50	8.27	32.66	50	25.42	257.3	1.38	.34	1482.
75	7.62	32.81	75	25.63	237.5	2.00	.74	1480.
100	7.42	33.23	99	25.90	203.9	2.55	1.23	1480.
125	7.08	33.51	124	26.26	178.9	3.03	1.78	1479.
150	7.39	33.86	149	26.49	157.5	3.45	2.36	1482.
175	6.91	33.91	174	26.60	147.7	3.83	2.99	1480.
200	6.78	33.98	199	26.67	141.3	4.19	3.68	1480.
225	6.33	33.97	223	26.72	136.3	4.54	4.43	1479.
250	6.14	33.97	248	26.74	134.3	4.88	5.25	1478.
300	5.46	33.94	298	26.80	128.7	5.54	7.10	1476.
400	4.89	34.01	397	26.93	117.9	6.77	11.49	1476.
500	4.58	34.09	496	27.03	109.1	7.90	16.69	1476.
600	4.50	34.20	595	27.12	101.2	8.96	22.58	1478.
800	3.91	34.33	793	27.29	86.5	10.83	35.87	1479.
1000	3.41	34.40	991	27.39	77.2	12.45	50.76	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 80

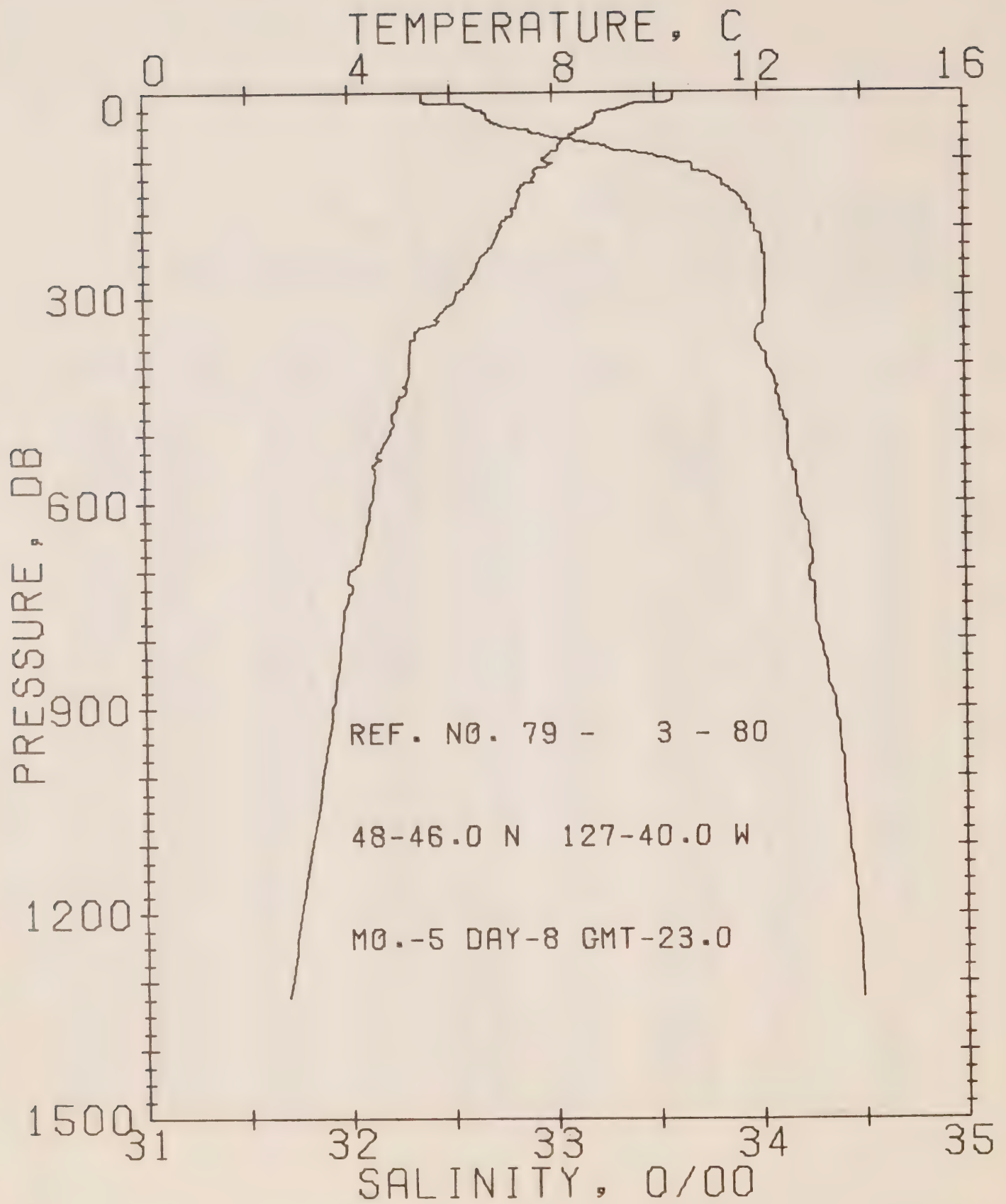
DATE 8/ 5/79

POSITION 48-46.0N, 127-40.0W GMT 23.0 STATION 4

RESULTS OF SIP CAST 192 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.35	32.36	0	24.86	310.2	.00	.00	1488.
10	10.36	32.36	10	24.86	310.5	.31	.02	1488.
20	9.45	32.58	20	25.18	280.1	.61	.06	1486.
30	8.89	32.66	30	25.33	265.9	.88	.13	1484.
40	8.81	32.69	40	25.36	262.7	1.15	.23	1484.
50	8.69	32.75	50	25.43	256.7	1.41	.34	1483.
60	8.39	32.92	60	25.61	239.9	1.65	.48	1483.
70	8.18	33.11	70	25.79	222.9	1.89	.64	1482.
80	8.10	33.26	80	25.92	210.8	2.10	.80	1482.
90	7.94	33.44	89	26.08	195.3	2.31	.98	1482.
100	7.83	33.58	99	26.21	183.6	2.50	1.16	1482.
110	7.78	33.68	109	26.29	175.6	2.68	1.36	1482.
120	7.68	33.76	119	26.37	168.4	2.85	1.56	1482.
130	7.64	33.83	129	26.43	162.8	3.02	1.77	1482.
140	7.37	33.85	139	26.48	157.8	3.18	1.99	1481.
150	7.36	33.89	149	26.52	154.5	3.33	2.22	1481.
160	7.31	33.92	159	26.55	152.1	3.48	2.46	1481.
170	7.27	33.95	169	26.58	149.5	3.64	2.71	1481.
180	7.20	33.97	179	26.60	147.2	3.78	2.98	1481.
190	6.99	33.97	189	26.63	144.4	3.93	3.25	1481.
200	6.95	33.99	199	26.65	142.6	4.07	3.54	1481.
210	6.88	34.01	209	26.68	140.4	4.21	3.83	1481.
220	6.84	34.01	218	26.68	139.9	4.35	4.14	1481.
230	6.74	34.02	228	26.71	138.0	4.49	4.46	1480.
240	6.60	34.03	238	26.73	135.6	4.63	4.79	1480.
250	6.51	34.03	248	26.74	134.6	4.77	5.13	1480.
260	6.47	34.03	258	26.75	134.1	4.90	5.48	1480.
270	6.39	34.03	268	26.76	133.3	5.03	5.84	1480.
280	6.28	34.03	278	26.77	132.0	5.17	6.21	1479.
290	6.17	34.03	288	26.79	130.7	5.30	6.59	1479.
300	6.08	34.03	298	26.80	129.7	5.43	6.98	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 80

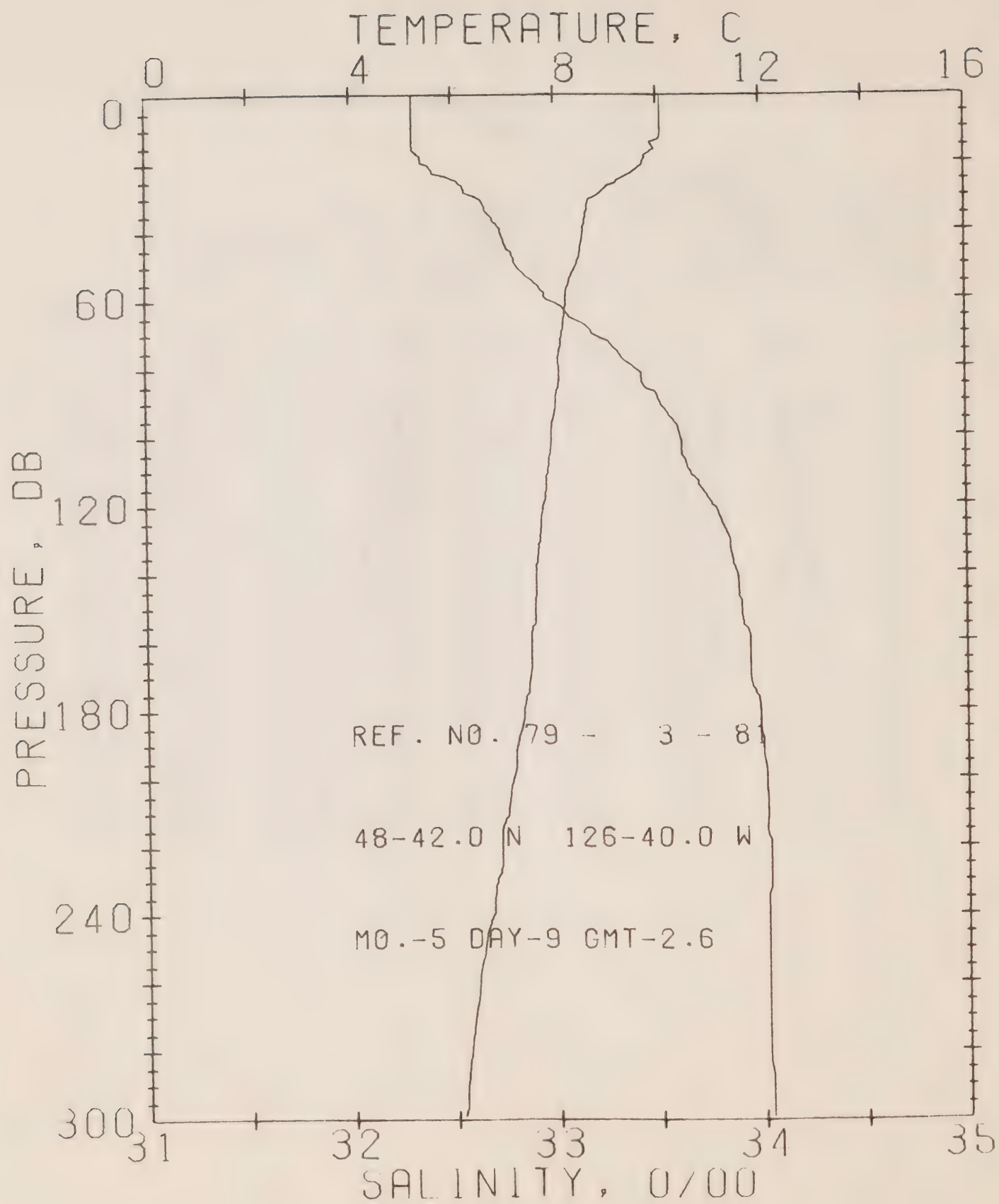
DATE 8/ 5/79

POSITION 48-46.0N, 127-40.0W GMT 23.0 STATION 4

RESULTS OF STP CAST 372 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.35	32.36	0	24.86	310.2	.00	.00	1488.
10	10.36	32.36	10	24.86	310.5	.31	.02	1488.
20	9.45	32.56	20	25.18	280.1	.61	.06	1486.
30	8.89	32.66	30	25.33	265.9	.88	.13	1484.
50	8.69	32.75	50	25.43	256.7	1.41	.34	1483.
75	8.13	33.19	75	25.86	216.3	2.00	.72	1482.
100	7.83	33.58	99	26.21	183.6	2.50	1.16	1482.
125	7.62	33.79	124	26.40	165.7	2.93	1.66	1482.
150	7.36	33.89	149	26.52	154.5	3.33	2.22	1481.
175	7.23	33.97	174	26.60	147.5	3.71	2.84	1481.
200	6.95	33.99	199	26.65	142.6	4.07	3.54	1481.
225	6.80	34.02	223	26.70	138.7	4.42	4.30	1481.
250	6.51	34.03	248	26.74	134.6	4.77	5.13	1480.
300	6.08	34.03	298	26.80	129.7	5.43	6.98	1479.
400	5.17	34.03	397	26.91	119.5	6.67	11.41	1477.
500	4.79	34.13	496	27.03	108.8	7.81	16.61	1477.
600	4.41	34.19	595	27.12	100.9	8.85	22.46	1477.
800	3.82	34.29	793	27.26	88.7	10.73	35.84	1478.
1000	3.42	34.40	991	27.39	77.3	12.38	50.88	1480.
1200	2.99	34.46	1188	27.45	69.3	13.84	67.26	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 81

DATE 9/ 5/79

POSITION 48-42.0N, 126-40.0W

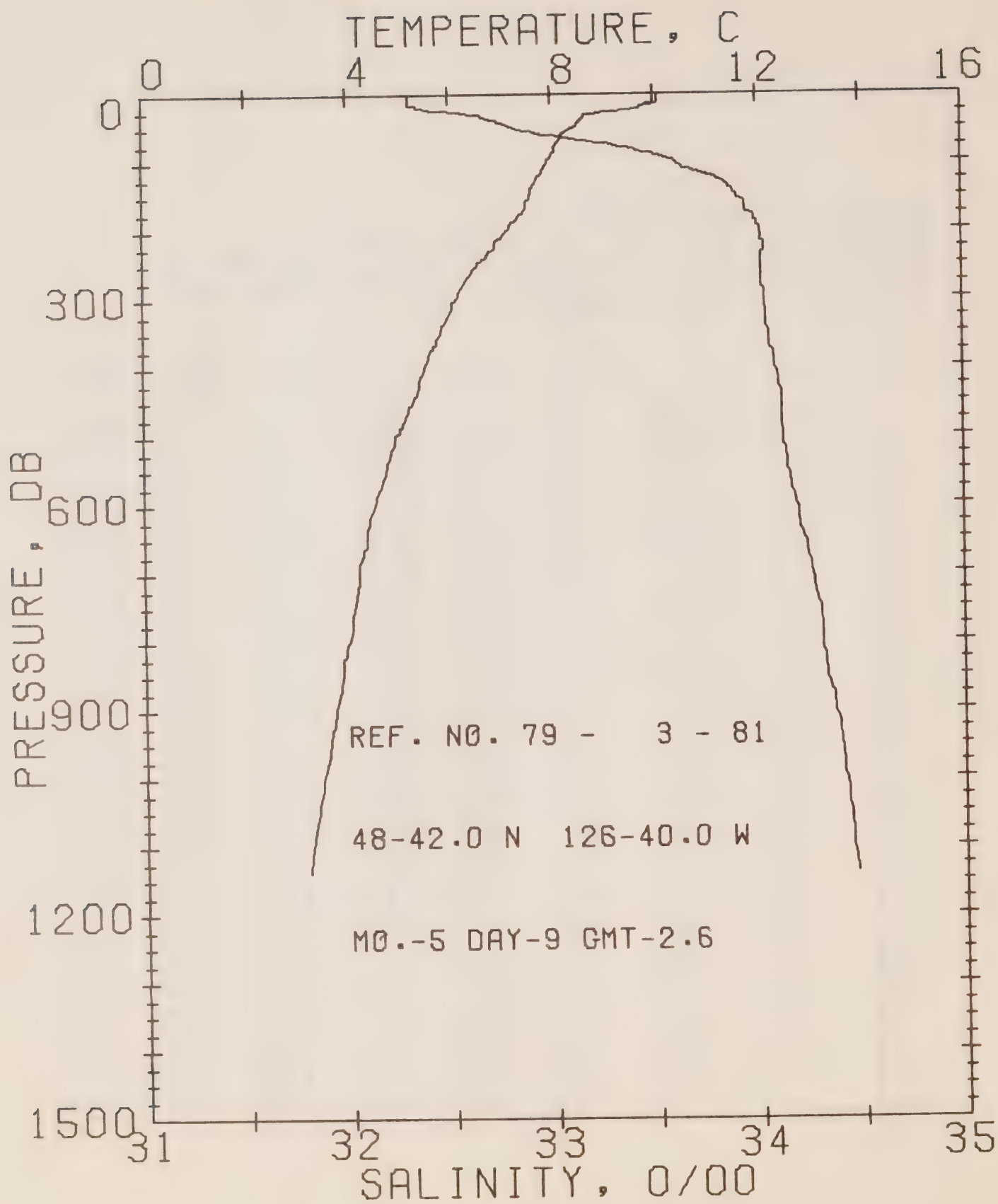
GMT 2.6

STATION 3

RESULTS OF STP CAST 175 POINTS TAKEN FROM ANALOG TRACE

GUIDELINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.08	32.31	0	24.86	309.6	.00	.00	1487.
10	10.08	32.31	10	24.86	309.8	.31	.02	1487.
20	9.73	32.35	20	24.95	301.5	.62	.06	1486.
30	8.81	32.61	30	25.30	268.5	.90	.13	1483.
40	8.57	32.73	40	25.43	256.2	1.16	.23	1483.
50	8.44	32.81	50	25.51	248.5	1.41	.34	1483.
60	8.21	32.96	60	25.67	234.3	1.65	.48	1482.
70	8.14	33.18	70	25.85	217.2	1.88	.63	1482.
80	8.07	33.39	80	26.02	200.7	2.09	.79	1482.
90	8.00	33.51	89	26.12	191.4	2.28	.96	1482.
100	7.92	33.61	99	26.21	182.9	2.47	1.14	1482.
110	7.84	33.65	109	26.26	178.7	2.65	1.33	1482.
120	7.76	33.76	119	26.36	169.5	2.82	1.53	1482.
130	7.68	33.85	129	26.44	161.9	2.99	1.74	1482.
140	7.60	33.88	139	26.48	158.7	3.15	1.97	1482.
150	7.57	33.90	149	26.50	156.9	3.31	2.20	1482.
160	7.50	33.94	159	26.54	153.2	3.46	2.44	1482.
170	7.47	33.94	169	26.54	152.9	3.62	2.70	1482.
180	7.34	33.99	179	26.60	147.6	3.77	2.97	1482.
190	7.19	34.00	189	26.63	145.0	3.91	3.25	1482.
200	7.13	34.01	199	26.64	143.6	4.06	3.53	1482.
210	7.01	34.02	209	26.67	141.3	4.20	3.83	1481.
220	6.89	34.03	218	26.69	139.1	4.34	4.14	1481.
230	6.78	34.03	228	26.71	137.8	4.48	4.46	1481.
240	6.71	34.02	238	26.71	137.8	4.62	4.79	1481.
250	6.53	34.02	248	26.73	135.5	4.75	5.13	1480.
260	6.41	34.02	258	26.75	134.1	4.89	5.48	1480.
270	6.34	34.02	268	26.76	133.4	5.02	5.84	1480.
280	6.26	34.02	278	26.77	132.4	5.16	6.21	1479.
290	6.19	34.03	288	26.79	130.9	5.29	6.59	1479.
300	6.11	34.03	298	26.79	130.1	5.42	6.99	1479.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 81

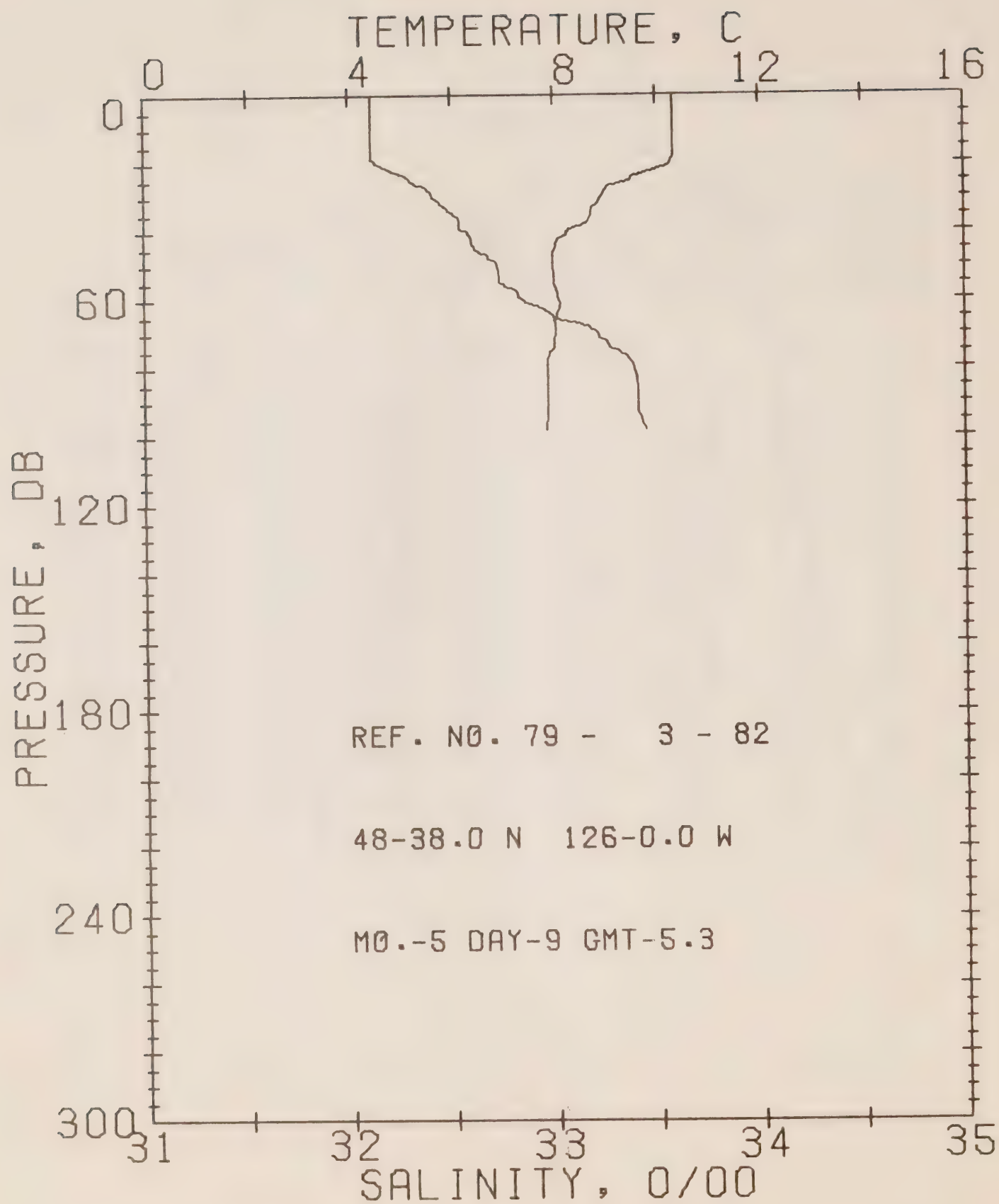
DATE 9/ 5/79

POSITION 48-42.0N, 126-40.0W GMT. 2.6 STATION 3

RESULTS OF STP CAST 317 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.08	32.31	0	24.86	309.6	.00	.00	1487.
10	10.08	32.31	10	24.86	309.8	.31	.02	1487.
20	9.73	32.35	20	24.95	301.5	.62	.06	1486.
30	8.81	32.61	30	25.30	268.5	.90	.13	1483.
50	8.44	32.81	50	25.51	248.5	1.41	.34	1483.
75	8.09	33.31	75	25.96	206.9	1.98	.70	1482.
100	7.92	33.61	99	26.21	182.9	2.47	1.14	1482.
125	7.71	33.81	124	26.40	165.2	2.91	1.64	1482.
150	7.57	33.90	149	26.50	156.9	3.31	2.20	1482.
175	7.43	33.97	174	26.57	150.2	3.69	2.84	1482.
200	7.13	34.01	199	26.64	143.6	4.06	3.53	1482.
225	6.89	34.03	223	26.69	139.2	4.41	4.30	1481.
250	6.53	34.02	248	26.73	135.5	4.75	5.13	1480.
300	6.11	34.03	298	26.79	130.1	5.42	6.99	1479.
400	5.50	34.08	397	26.91	120.0	6.67	11.45	1478.
500	4.91	34.12	496	27.01	111.0	7.82	16.74	1478.
600	4.50	34.18	595	27.11	102.4	8.90	22.74	1478.
800	3.98	34.31	793	27.26	88.8	10.79	36.21	1479.
1000	3.45	34.42	991	27.40	76.4	12.44	51.30	1480.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 82

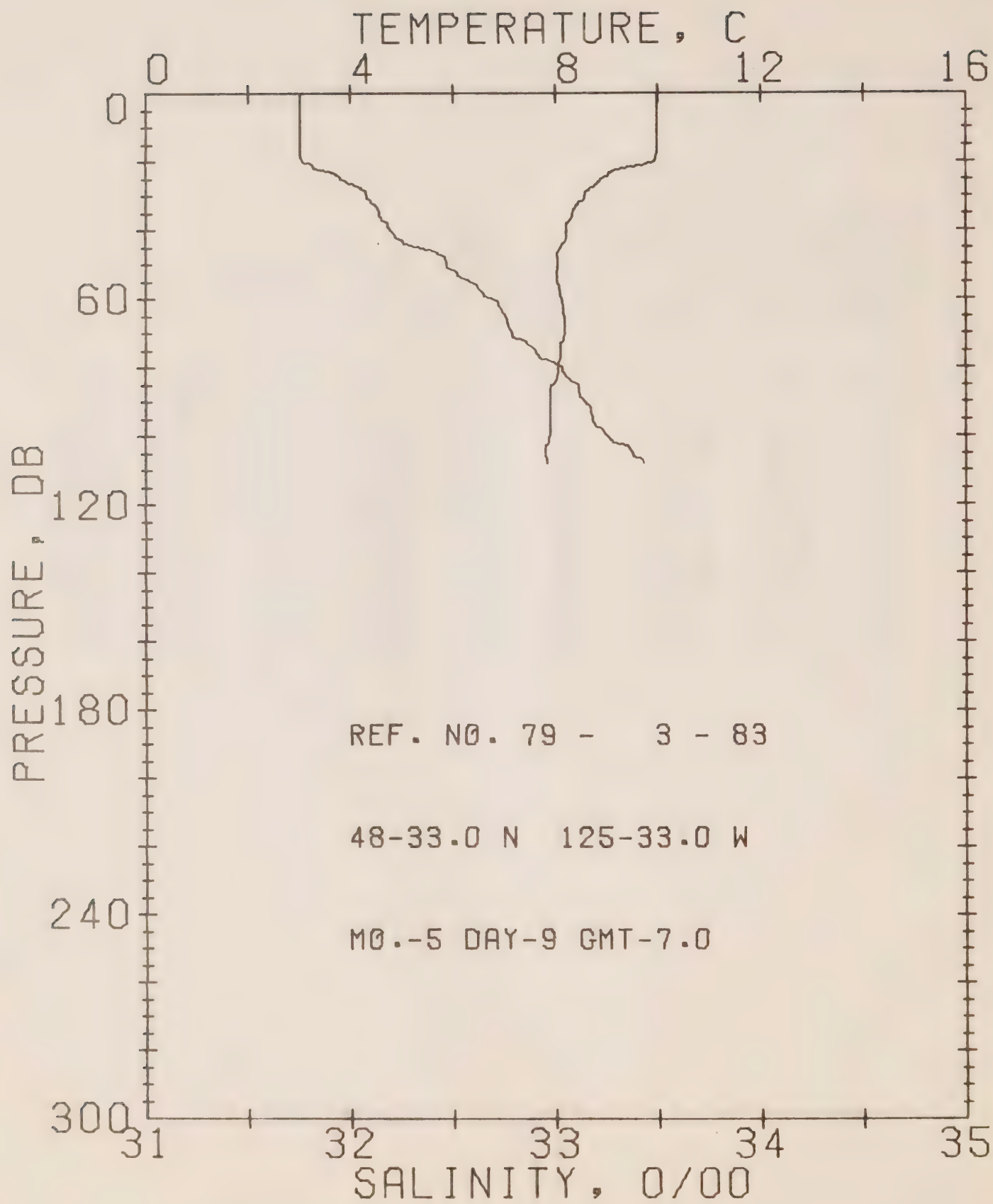
DATE 9/ 5/79

POSITION 48-38.0N, 126- .0W GMT 5.3 STATION 2

RESULTS OF STP CAST 66 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	10.33	32.11	0	24.67	328.4	.00	.00	1488.
10	10.35	32.11	10	24.66	328.9	.33	.02	1488.
20	10.26	32.13	20	24.69	326.1	.66	.07	1488.
30	8.92	32.41	30	25.13	284.9	.96	.14	1484.
40	8.25	32.58	40	25.36	262.8	1.23	.24	1481.
50	7.98	32.71	50	25.51	249.2	1.49	.36	1481.
60	8.11	32.85	60	25.59	241.1	1.74	.50	1482.
70	8.02	33.21	70	25.89	213.2	1.96	.65	1482.
80	7.88	33.38	80	26.05	198.4	2.17	.80	1482.
90	7.86	33.41	89	26.07	196.4	2.37	.97	1482.



OFFSHORE OCEANOGRAPHY GROUP

REFERENCE NO. 79- 3- 83

DATE 9/ 5/79

POSITION 48-33.0N, 125-33.0W GMT 7.0 STATION 1

RESULTS OF STP CAST 79 POINTS TAKEN FROM ANALOG TRACE

GUILDLINE WAS USED, PRESSURES ARE INPUT

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.97	31.75	0	24.45	349.3	.00	.00	1486.
10	9.98	31.75	10	24.45	349.6	.35	.02	1486.
20	9.93	31.76	20	24.46	348.3	.70	.07	1486.
30	8.59	32.07	30	24.92	304.9	1.02	.15	1482.
40	8.21	32.19	40	25.06	291.2	1.32	.26	1481.
50	8.05	32.47	50	25.31	268.3	1.60	.39	1481.
60	8.13	32.69	60	25.47	253.2	1.86	.53	1481.
70	8.18	32.79	70	25.54	246.7	2.11	.70	1482.
80	8.05	33.03	80	25.74	227.2	2.34	.88	1482.
90	7.90	33.14	89	25.85	217.1	2.57	1.07	1482.
100	7.88	33.25	99	25.94	208.8	2.78	1.28	1482.

Surface Salinity and Temperature Observations
(P-79-3)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 3

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	3	23	1800	31.005		123-30
79	3	23	1920	31.356		124- 0
79	3	23	2045	31.352		124-30
79	3	23	2155	30.951		125- 0
79	3	23	2330	32.024	10.4	125-33
79	3	24	100	31.377		126- 0
79	3	24	312	32.461	9.2	126-40
79	3	24	640	32.555	9.2	127-40
79	3	24	1000	32.488		128-40
79	3	24	1612	32.553	7.8	130-40
79	3	24	2230	32.493	7.5	132-40
79	3	25	420	32.468	7.4	134-40
79	3	25	1100	32.461	7.4	136-40
79	3	25	1800	32.552	7.2	138-40
79	3	26	210	32.630	6.8	140-40
79	3	26	902	32.603	6.2	142-40
79	3	26	2100	32.601	5.9	145- 0
79	3	27	0	32.600	5.8	ON STATION
79	3	28	0	32.599	5.8	ON STATION
79	3	29	0	32.599	6.1	ON STATION
79	3	30	0	32.603	6.1	ON STATION
79	3	31	0	32.608	6.2	ON STATION
79	4	1	0	32.600	6.0	ON STATION
79	4	2	0	32.592	6.2	ON STATION
79	4	3	0	32.592	6.4	ON STATION
79	4	4	0	32.596	6.5	ON STATION
79	4	5	0	32.592	6.6	ON STATION
79	4	6	0	32.737	6.4	ON STATION
79	4	7	0	32.600*	6.3	ON STATION
79	4	8	0	32.619*	6.3	ON STATION
79	4	9	0	32.607*	6.2	ON STATION
79	4	10	0	32.604	6.2	ON STATION
79	4	11	0	32.607	6.3	ON STATION
79	4	12	0	32.591	6.2	ON STATION
79	4	13	0	32.587	6.2	ON STATION
79	4	14	0	32.590	6.5	ON STATION
79	4	15	0	32.574	6.5	ON STATION
79	4	16	0	32.621	6.2	ON STATION
79	4	17	0	32.588	6.5	ON STATION
79	4	18	0	32.485	6.4	ON STATION
79	4	19	0	32.582	6.6	ON STATION
79	4	20	0	32.323	6.5	ON STATION
79	4	21	0	32.590	6.7	ON STATION
79	4	22	0	32.584	6.5	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 79- 3

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
79	4	23	0	32.584	6.5	ON STATION
79	4	24	0	32.584	6.5	ON STATION
79	4	25	0	32.589	6.7	ON STATION
79	4	26	0	32.457	6.7	ON STATION
79	4	27	0	32.588	6.8	ON STATION
79	4	28	0	32.422	6.8	ON STATION
79	4	29	0	32.596	7.0	ON STATION
79	4	30	0	32.459	7.1	ON STATION
79	5	1	0	32.447	6.8	ON STATION
79	5	2	0	32.508	7.2	ON STATION
79	5	3	0	32.596	7.7	ON STATION
79	5	4	0	32.469	7.5	ON STATION
79	5	5	0	32.604	7.4	ON STATION
79	5	6	0	32.596	7.7	145- 0
79	5	6	2100	32.597	7.4	142-40
79	5	7	250	32.596	8.2	140-40
79	5	7	915	32.550	8.1	138-40
79	5	7	1548	32.431	8.2	136-40
79	5	7	2230	32.472	8.1	134-40
79	5	8	540	32.481	8.8	132-40
79	5	8	1212	32.355	9.6	130-40
79	5	8	1900	32.498	9.8	128-40
79	5	8	2340	32.284	10.3	127-40
79	5	9	530	32.060	10.6	126- 0
79	5	9	700	31.720	10.1	125-33
79	5	9	900	29.492*		125- 0
79	5	9	1020	29.965*		124-30
79	5	9	1146	29.406*		124- 0
79	5	9	1320	31.484*		123-30

* DENOTES SALINITY SAMPLE TAKEN FROM A
BUCKET. ALL OTHER SAMPLES TAKEN FROM
THE SEAWATER LOOP

